

American Radiators

Ratings, Dimensions
and Data

GEORGE G. BAETZ JR.

AMERICAN RADIATOR COMPANY

DIVISION OF AMERICAN RADIATOR & STANDARD SANITARY CORPORATION

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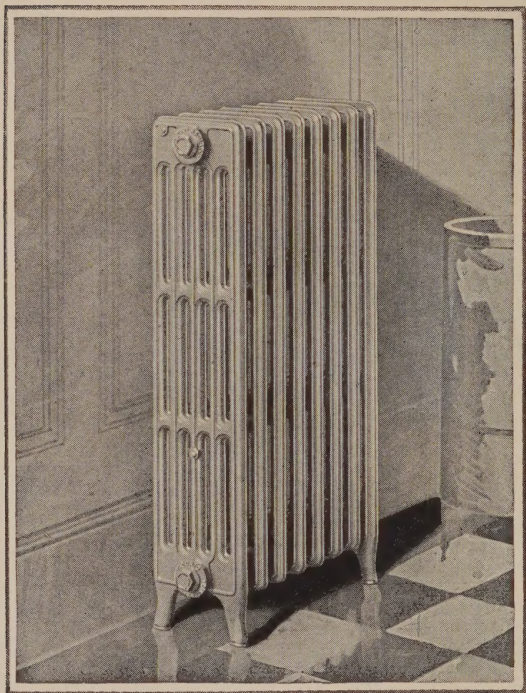
AMERICAN RADIATORS

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AMERICAN RADIATORS

AMERICAN CORTO RADIATORS



Patented

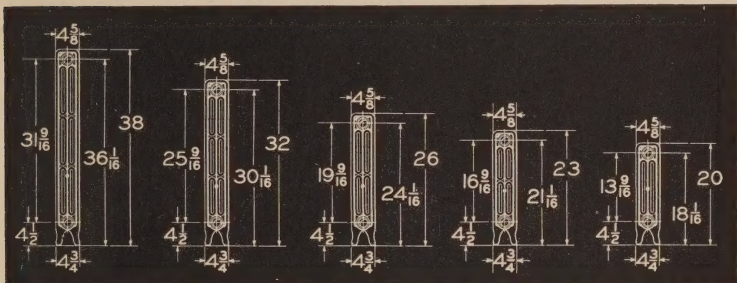
THE RADIATOR CLASSIC

NAMED after its famous artist-engineer designer, M. Courtot, the American Corto Radiator is today the most popular radiator in America and in fact throughout the world.

AMERICAN RADIATORS

AMERICAN CORTO RADIATORS

Three-Tube—Dimensions and Ratings



WIDTH, $4\frac{5}{8}$ INCHES; CENTERS, $21\frac{1}{2}$ INCHES

Number of Sections	* Length $2\frac{1}{2}$ Inches Per Section	HEATING SURFACE—SQUARE FEET Based upon Engineering Standard of 240 B.t.u. emission per Square Foot per Hour				
		20-inch Height $1\frac{3}{4}$ Sq. Ft. Per Section	23-inch Height 2 Sq. Ft. Per Section	26-inch Height $2\frac{1}{8}$ Sq. Ft. Per Section	32-inch Height 3 Sq. Ft. Per Section	38-inch Height $3\frac{1}{2}$ Sq. Ft. Per Section
2	5	$3\frac{1}{2}$	4	$4\frac{2}{3}$	6	7
3	$7\frac{1}{2}$	$5\frac{1}{4}$	6	7	9	$10\frac{1}{2}$
4	10	7	8	$9\frac{1}{3}$	12	14
5	$12\frac{1}{2}$	$8\frac{3}{4}$	10	$11\frac{2}{3}$	15	$17\frac{1}{2}$
6	15	$10\frac{1}{2}$	12	14	18	21
7	$17\frac{1}{2}$	$12\frac{1}{4}$	14	$16\frac{1}{3}$	21	$24\frac{1}{2}$
8	20	14	16	$18\frac{2}{3}$	24	28
9	$22\frac{1}{2}$	$15\frac{3}{4}$	18	21	27	$31\frac{1}{2}$
10	25	$17\frac{1}{2}$	20	$23\frac{1}{3}$	30	35
11	$27\frac{1}{2}$	$19\frac{1}{4}$	22	$25\frac{2}{3}$	33	$38\frac{1}{2}$
12	30	21	24	28	36	42
13	$32\frac{1}{2}$	$22\frac{3}{4}$	26	$30\frac{1}{3}$	39	$45\frac{1}{2}$
14	35	$24\frac{1}{2}$	28	$32\frac{2}{3}$	42	49
15	$37\frac{1}{2}$	$26\frac{1}{4}$	30	35	45	$52\frac{1}{2}$
16	40	28	32	$37\frac{1}{3}$	48	56
17	$42\frac{1}{2}$	$29\frac{3}{4}$	34	$39\frac{2}{3}$	51	$59\frac{1}{2}$
18	45	$31\frac{1}{2}$	36	42	54	63
19	$47\frac{1}{2}$	$33\frac{1}{4}$	38	$44\frac{1}{3}$	57	$66\frac{1}{2}$
20	50	35	40	$46\frac{2}{3}$	60	70
21	$52\frac{1}{2}$	$36\frac{3}{4}$	42	49	63	$73\frac{1}{2}$
22	55	$38\frac{1}{2}$	44	$51\frac{1}{3}$	66	77
23	$57\frac{1}{2}$	$40\frac{1}{4}$	46	$53\frac{2}{3}$	69	$80\frac{1}{2}$
24	60	42	48	56	72	84
25	$62\frac{1}{2}$	$43\frac{3}{4}$	50	$58\frac{1}{3}$	75	$87\frac{1}{2}$
26	65	$45\frac{1}{2}$	52	$60\frac{2}{3}$	78	91
27	$67\frac{1}{2}$	$47\frac{1}{4}$	54	63	81	$94\frac{1}{2}$
28	70	49	56	$65\frac{1}{3}$	84	98
29	$72\frac{1}{2}$	$50\frac{3}{4}$	58	$67\frac{2}{3}$	87	$101\frac{1}{2}$
30	75	$52\frac{1}{2}$	60	70	90	105

TAPPINGS— $1\frac{1}{2}$ inches top and bottom. Bushed for steam or water as per specifications.

Can be supplied on special order with 6-inch legs, or without legs at no extra charge. For height of loop section only, subtract ($3''$) inches from total height as shown above.

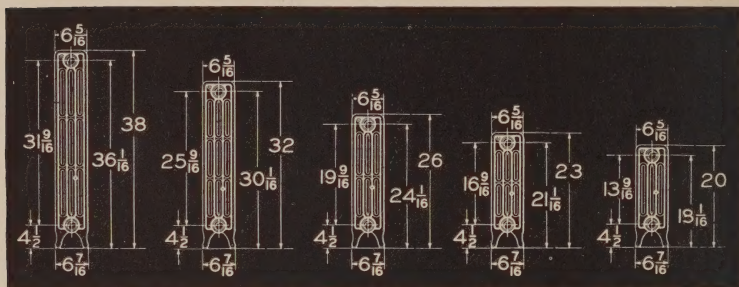
CONNECTIONS—Both steam and water—extra heavy $1\frac{1}{2}$ -inch right and left threaded nipples at top and bottom.

* Add $\frac{1}{2}$ inch to length for each bushing.

AMERICAN RADIATORS

AMERICAN CORTO RADIATORS

Four-Tube—Dimensions and Ratings



WIDTH, $6\frac{5}{16}$ INCHES; CENTERS, $2\frac{1}{2}$ INCHES

Number of Sections	* Length 2 1/2 Inches Per Section	HEATING SURFACE—SQUARE FEET Based upon Engineering Standard of 240 B.t.u. emission per Square Foot per Hour				
		20-inch Height	23-inch Height	26-inch Height	32-inch Height	38-inch Height
		2 1/4 Sq. Ft. Per Section	2 1/2 Sq. Ft. Per Section	2 3/4 Sq. Ft. Per Section	3 1/2 Sq. Ft. Per Section	4 1/4 Sq. Ft. Per Section
2	5	4 1/2	5	5 1/2	7	8 1/2
3	7 1/2	6 3/4	7 1/2	8 1/4	10 1/2	12 3/4
4	10	9	10	11	14	17
5	12 1/2	11 1/4	12 1/2	13 3/4	17 1/2	21 1/4
6	15	13 1/2	15	16 1/2	21	25 1/2
7	17 1/2	15 3/4	17 1/2	19 1/4	24 1/2	29 3/4
8	20	18	20	22	28	34
9	22 1/2	20 1/4	22 1/2	24 3/4	31 1/2	38 1/4
10	25	22 1/2	25	27 1/2	35	42 1/2
11	27 1/2	24 3/4	27 1/2	30 1/4	38 1/2	46 3/4
12	30	27	30	33	42	51
13	32 1/2	29 1/4	32 1/2	35 3/4	45 1/2	55 1/4
14	35	31 1/2	35	38 1/2	49	59 1/2
15	37 1/2	33 3/4	37 1/2	41 1/4	52 1/2	63 3/4
16	40	36	40	44	56	68
17	42 1/2	38 1/4	42 1/2	46 3/4	59 1/2	72 1/4
18	45	40 1/2	45	49 1/2	63	76 1/2
19	47 1/2	42 3/4	47 1/2	52 1/4	66 1/2	80 3/4
20	50	45	50	55	70	85
21	52 1/2	47 1/4	52 1/2	57 3/4	73 1/2	89 1/4
22	55	49 1/2	55	60 1/2	77	93 1/2
23	57 1/2	51 3/4	57 1/2	63 1/4	80 1/2	97 3/4
24	60	54	60	66	84	102
25	62 1/2	56 1/4	62 1/2	68 3/4	87 1/2	106 1/4
26	65	58 1/2	65	71 1/2	91	110 1/2
27	67 1/2	60 3/4	67 1/2	74 1/4	94 1/2	114 3/4
28	70	63	70	77	98	119
29	72 1/2	65 1/4	72 1/2	79 3/4	101 1/2	123 1/4
30	75	67 1/2	75	82 1/2	105	127 1/2

TAPPINGS—1 1/2 inches top and bottom. Bushed for steam or water as per specifications.

Can be supplied on special order with 6-inch legs, or without legs at no extra charge. For height of loop section only, subtract (3") inches from total height as shown above.

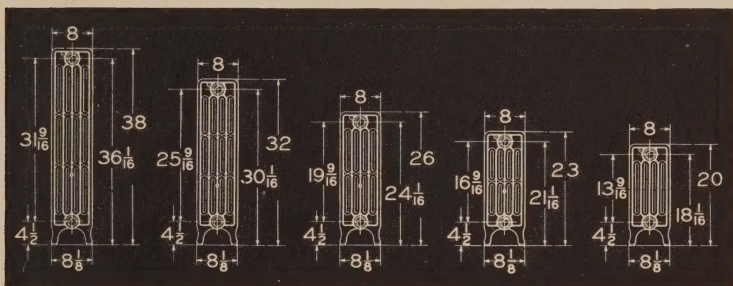
CONNECTIONS—Both steam and water—extra heavy 1 1/2-inch right and left threaded nipples at top and bottom.

* Add 1/2 inch to length for each bushing.

AMERICAN RADIATORS

AMERICAN CORTO RADIATORS

Five-Tube—Dimensions and Ratings



WIDTH, 8 INCHES; CENTERS, 2 ¹/₂ INCHES

Number of Sections	* Length 2 ¹ / ₂ Inches Per Section	HEATING SURFACE—SQUARE FEET Based upon Engineering Standard of 240 B.t.u. emission per Square Foot per Hour				
		20-inch Height 2 ² / ₃ Sq. Ft. Per Section	23-inch Height 3 Sq. Ft. Per Section	26-inch Height 3 ¹ / ₂ Sq. Ft. Per Section	32-inch Height 4 ¹ / ₃ Sq. Ft. Per Section	38-inch Height 5 Sq. Ft. Per Section
2	5	5 ¹ / ₃	6	7	8 ² / ₃	10
3	7 ¹ / ₂	8	9	10 ¹ / ₂	13	15
4	10	10 ² / ₃	12	14	17 ¹ / ₃	20
5	12 ¹ / ₂	13 ¹ / ₃	15	17 ¹ / ₂	21 ² / ₃	25
6	15	16	18	21	26	30
7	17 ¹ / ₂	18 ² / ₃	21	24 ¹ / ₂	30 ¹ / ₃	35
8	20	21 ¹ / ₃	24	28	34 ² / ₃	40
9	22 ¹ / ₂	24	27	31 ¹ / ₂	39	45
10	25	26 ² / ₃	30	35	43 ¹ / ₃	50
11	27 ¹ / ₂	29 ¹ / ₃	33	38 ¹ / ₂	47 ² / ₃	55
12	30	32	36	42	52	60
13	32 ¹ / ₂	34 ² / ₃	39	45 ¹ / ₂	56 ¹ / ₃	65
14	35	37 ¹ / ₃	42	49	60 ² / ₃	70
15	37 ¹ / ₂	40	45	52 ¹ / ₂	65	75
16	40	42 ² / ₃	48	56	69 ¹ / ₃	80
17	42 ¹ / ₂	45 ¹ / ₃	51	59 ¹ / ₂	73 ² / ₃	85
18	45	48	54	63	78	90
19	47 ¹ / ₂	50 ² / ₃	57	66 ¹ / ₂	82 ¹ / ₃	95
20	50	53 ¹ / ₃	60	70	86 ² / ₃	100
21	52 ¹ / ₂	56	63	73 ¹ / ₂	91	105
22	55	58 ² / ₃	66	77	95 ¹ / ₃	110
23	57 ¹ / ₂	61 ¹ / ₃	69	80 ¹ / ₂	99 ² / ₃	115
24	60	64	72	84	104	120
25	62 ¹ / ₂	66 ² / ₃	75	87 ¹ / ₂	108 ¹ / ₃	125
26	65	69 ¹ / ₃	78	91	112 ² / ₃	130
27	67 ¹ / ₂	72	81	94 ¹ / ₂	117	135
28	70	74 ² / ₃	84	98	121 ¹ / ₃	140
29	72 ¹ / ₂	77 ¹ / ₃	87	101 ¹ / ₂	125 ² / ₃	145
30	75	80	90	105	130	150

TAPPINGS—1 ¹/₂ inches top and bottom. Bushed for steam or water as per specifications.

Can be supplied on special order with 6-inch legs, or without legs at no extra charge. For height of loop section only, subtract (3") inches from total height as shown above.

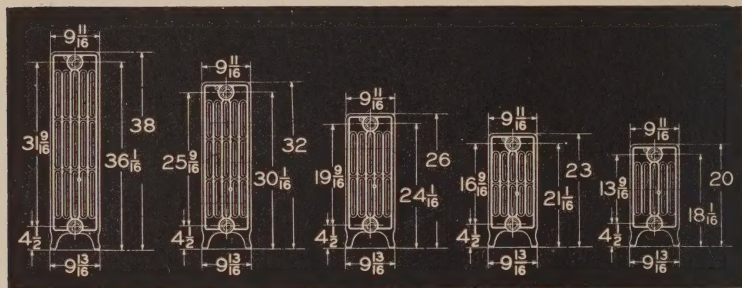
CONNECTIONS—Both steam and water—extra heavy 1 ¹/₂-inch right and left threaded nipples at top and bottom.

* Add ¹/₂ inch to length for each bushing.

AMERICAN RADIATORS

AMERICAN CORTO RADIATORS

Six-Tube—Dimensions and Ratings



WIDTH, $9\frac{11}{16}$ INCHES; CENTERS, $2\frac{1}{2}$ INCHES

Number of Sections	* Length 2 1/2 Inches Per Section	HEATING SURFACE—SQUARE FEET Based upon Engineering Standard of 240 B.t.u. emission per Square Foot per Hour				
		20-inch Height 3 Sq. Ft. Per Section	23-inch Height 3 1/2 Sq. Ft. Per Section	26-inch Height 4 Sq. Ft. Per Section	32-inch Height 5 Sq. Ft. Per Section	38-inch Height 6 Sq. Ft. Per Section
2	5	6	7	8	10	12
3	7 1/2	9	10 1/2	12	15	18
4	10	12	14	16	20	24
5	12 1/2	15	17 1/2	20	25	30
6	15	18	21	24	30	36
7	17 1/2	21	24 1/2	28	35	42
8	20	24	28	32	40	48
9	22 1/2	27	31 1/2	36	45	54
10	25	30	35	40	50	60
11	27 1/2	33	38 1/2	44	55	66
12	30	36	42	48	60	72
13	32 1/2	39	45 1/2	52	65	78
14	35	42	49	56	70	84
15	37 1/2	45	52 1/2	60	75	90
16	40	48	56	64	80	96
17	42 1/2	51	59 1/2	68	85	102
18	45	54	63	72	90	108
19	47 1/2	57	66 1/2	76	95	114
20	50	60	70	80	100	120
21	52 1/2	63	73 1/2	84	105	126
22	55	66	77	88	110	132
23	57 1/2	69	80 1/2	92	115	138
24	60	72	84	96	120	144
25	62 1/2	75	87 1/2	100	125	150
26	65	78	91	104	130	156
27	67 1/2	81	94 1/2	108	135	162
28	70	84	98	112	140	168
29	72 1/2	87	101 1/2	116	145	174
30	75	90	105	120	150	180

TAPPINGS—1 1/2 inches top and bottom. Bushed for steam or water as per specifications.

Can be supplied on special order with 6-inch legs, or without legs at no extra charge. For height of loop section only, subtract (3") inches from total height as shown above.

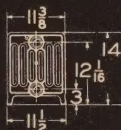
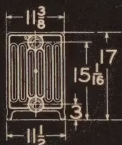
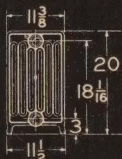
CONNECTIONS—Both steam and water—extra heavy 1 1/2-inch right and left threaded nipples at top and bottom.

* Add 1/2 inch to length for each bushing.

AMERICAN RADIATORS

AMERICAN CORTO WINDOW RADIATORS

Seven-Tube—Dimensions and Ratings



WIDTH, $11\frac{3}{8}$ INCHES; CENTERS, $2\frac{1}{2}$ INCHES

Number of Sections	* Length $2\frac{1}{2}$ Inches Per Section	HEATING SURFACE—SQUARE FEET Based upon Engineering Standard of 240 B.t.u. emission per Square Foot per Hour		
		14-inch Height $2\frac{1}{2}$ Sq. Ft. Per Section	17-inch Height 3 Sq. Ft. Per Section	20-inch Height $3\frac{2}{3}$ Sq. Ft. Per Section
2	5	5	6	$7\frac{1}{3}$
3	$7\frac{1}{2}$	$7\frac{1}{2}$	9	11
4	10	10	12	$14\frac{2}{3}$
5	$12\frac{1}{2}$	$12\frac{1}{2}$	15	$18\frac{1}{3}$
6	15	15	18	22
7	$17\frac{1}{2}$	$17\frac{1}{2}$	21	$25\frac{2}{3}$
8	20	20	24	$29\frac{1}{3}$
9	$22\frac{1}{2}$	$22\frac{1}{2}$	27	33
10	25	25	30	$36\frac{2}{3}$
11	$27\frac{1}{2}$	$27\frac{1}{2}$	33	$40\frac{1}{3}$
12	30	30	36	44
13	$32\frac{1}{2}$	$32\frac{1}{2}$	39	$47\frac{2}{3}$
14	35	35	42	$51\frac{1}{3}$
15	$37\frac{1}{2}$	$37\frac{1}{2}$	45	55
16	40	40	48	$58\frac{2}{3}$
17	$42\frac{1}{2}$	$42\frac{1}{2}$	51	$62\frac{1}{3}$
18	45	45	54	66
19	$47\frac{1}{2}$	$47\frac{1}{2}$	57	$69\frac{2}{3}$
20	50	50	60	$73\frac{1}{3}$
21	$52\frac{1}{2}$	$52\frac{1}{2}$	63	77
22	55	55	66	$80\frac{2}{3}$
23	$57\frac{1}{2}$	$57\frac{1}{2}$	69	$84\frac{1}{3}$
24	60	60	72	88
25	$62\frac{1}{2}$	$62\frac{1}{2}$	75	$91\frac{2}{3}$
26	65	65	78	$95\frac{1}{3}$
27	$67\frac{1}{2}$	$67\frac{1}{2}$	81	99
28	70	70	84	$102\frac{2}{3}$
29	$72\frac{1}{2}$	$72\frac{1}{2}$	87	$106\frac{1}{3}$
30	75	75	90	110

TAPPINGS— $1\frac{1}{2}$ inches top and bottom. Bushed for steam or water as per specifications.

Can be supplied on special order with $4\frac{1}{2}$ -inch legs, or without legs at no extra charge.

For height of loop section only, subtract ($1\frac{1}{2}$ ") inches from total height as shown above.

CONNECTIONS—Both steam and water—extra heavy $1\frac{1}{2}$ -inch right and left threaded nipples at top and bottom.

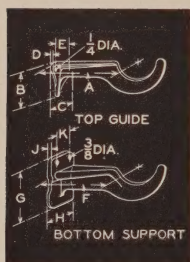
• Add $\frac{1}{2}$ inch to length for each bushing.

AMERICAN RADIATORS

AMERICAN CORTO CONCEALED RADIATOR BRACKETS DIMENSIONS

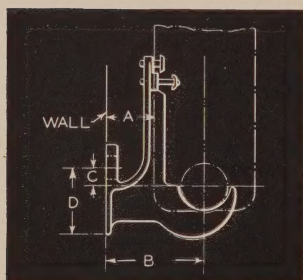


Type of Radiator	A	B	C	E	D						
					14	17	20	23	26	32	38
Three Tube	$3\frac{11}{16}$	6	$2\frac{15}{16}$	$2\frac{7}{16}$	...	...	$14\frac{1}{16}$	$17\frac{1}{16}$	$20\frac{1}{16}$	$26\frac{1}{16}$	32
Four Tube	$4\frac{1}{2}$	$7\frac{5}{8}$	$2\frac{15}{16}$	$2\frac{7}{16}$	...	...	$14\frac{1}{16}$	$17\frac{1}{16}$	$20\frac{1}{16}$	$26\frac{1}{16}$	32
Five Tube	$5\frac{3}{8}$	$9\frac{3}{8}$	$2\frac{15}{16}$	$2\frac{7}{16}$	...	...	$14\frac{1}{16}$	$17\frac{1}{16}$	$20\frac{1}{16}$	$26\frac{1}{16}$	32
Six Tube	$6\frac{3}{16}$	11	$2\frac{15}{16}$	$2\frac{7}{16}$	...	...	$14\frac{1}{16}$	$17\frac{1}{16}$	$20\frac{1}{16}$	$26\frac{1}{16}$	32
Seven Tube											
Window	7	$12\frac{11}{16}$	$2\frac{15}{16}$	$2\frac{7}{16}$	$9\frac{9}{16}$	$12\frac{9}{16}$	$15\frac{9}{16}$	...	...	...	...



Type of Radiator	Top Bracket					Bottom Bracket				
	A	B	C	D	E	F	G	H	J	K
Three Tube	$3\frac{11}{16}$	$2\frac{5}{8}$	$1\frac{3}{4}$	$\frac{5}{16}$	1	$3\frac{11}{16}$	$4\frac{3}{8}$	$2\frac{1}{4}$	$\frac{1}{2}$	$1\frac{1}{4}$
Four Tube	$4\frac{1}{2}$	$2\frac{5}{8}$	$1\frac{3}{4}$	$\frac{5}{16}$	1	$4\frac{1}{2}$	$4\frac{3}{8}$	$2\frac{1}{4}$	$\frac{1}{2}$	$1\frac{1}{4}$
Five Tube	$5\frac{3}{8}$	$2\frac{5}{8}$	$1\frac{3}{4}$	$\frac{5}{16}$	1	$5\frac{3}{8}$	$4\frac{3}{8}$	$2\frac{1}{4}$	$\frac{1}{2}$	$1\frac{1}{4}$
Six Tube	$6\frac{3}{16}$	$2\frac{5}{8}$	$1\frac{3}{4}$	$\frac{5}{16}$	1	$6\frac{3}{16}$	$4\frac{3}{4}$	$2\frac{1}{4}$	$\frac{1}{2}$	$1\frac{1}{4}$
Seven Tube										
Window	7	$2\frac{5}{8}$	$1\frac{3}{4}$	$\frac{5}{16}$	1	7	$4\frac{3}{8}$	$2\frac{1}{4}$	$\frac{1}{2}$	$1\frac{1}{4}$

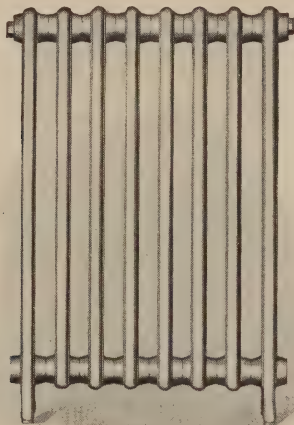
AMERICAN CORTO MALLEABLE RADIATOR BRACKETS DIMENSIONS



Dimension "A" Inches	2	3	4	5
	DIMENSION "B"			
Three Tube	$4\frac{5}{16}$	$5\frac{5}{16}$	$6\frac{5}{16}$	$7\frac{5}{16}$
Four Tube	$5\frac{3}{16}$	$6\frac{3}{16}$	$7\frac{3}{16}$	$8\frac{3}{16}$
Five Tube	6	7	8	9
Six Tube	$6\frac{7}{8}$	$7\frac{7}{8}$	$8\frac{7}{8}$	$9\frac{7}{8}$
Seven Tube Window	$7\frac{3}{4}$	$8\frac{3}{4}$	$9\frac{3}{4}$	$10\frac{3}{4}$
Dimension "C"	$\frac{7}{8}$	$1\frac{3}{8}$	$1\frac{3}{8}$	$1\frac{3}{8}$
Dimension "D"	$4\frac{3}{8}$	$4\frac{3}{8}$	$4\frac{3}{8}$	$4\frac{3}{8}$

AMERICAN RADIATORS

AMERICAN CORTO HOSPITAL RADIATORS



For use in Hospitals and Sanitariums

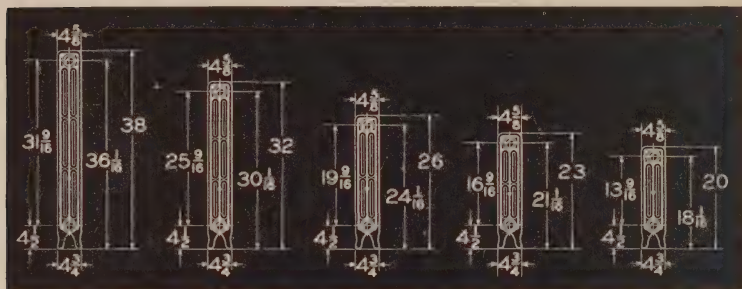
SANITARY conditions in hospitals and sanitariums demand a radiator that is accessible for easy and thorough cleaning. American Corto Hospital Radiators meet this need with well-spaced sections measuring three inches from center to center.

American Corto Hospital Radiators are regularly furnished without bead, and in three and five tube widths and all heights.

The heating surface, heights and widths are the same as for corresponding patterns of standard American Corto Radiators. The lengths are twenty per cent greater because of the three-inch center to center sections.

AMERICAN RADIATORS

AMERICAN CORTO HOSPITAL RADIATORS Three-Tube



WIDTH, $4\frac{5}{8}$ INCHES; CENTERS, 3 INCHES

Number of Sections	* Length 3 Inches Per Section	HEATING SURFACE—SQUARE FEET Based upon Engineering Standard of 240 B.t.u. emission per Square Foot per Hour				
		20-inch Height $1\frac{3}{4}$ Sq. Ft. Per Section	23-inch Height 2 Sq. Ft. Per Section	26-inch Height $2\frac{1}{2}$ Sq. Ft. Per Section	32-inch Height 3 Sq. Ft. Per Section	38-inch Height $3\frac{1}{2}$ Sq. Ft. Per Section
2	$5\frac{1}{2}$	$3\frac{1}{2}$	4	$4\frac{2}{3}$	6	7
3	$8\frac{1}{2}$	$5\frac{1}{4}$	6	7	9	$10\frac{1}{2}$
4	$11\frac{1}{2}$	7	8	$9\frac{1}{3}$	12	14
5	$14\frac{1}{2}$	$8\frac{3}{4}$	10	$11\frac{2}{3}$	15	$17\frac{1}{2}$
6	$17\frac{1}{2}$	$10\frac{1}{2}$	12	14	18	21
7	$20\frac{1}{2}$	$12\frac{1}{4}$	14	$16\frac{1}{3}$	21	$24\frac{1}{2}$
8	$23\frac{1}{2}$	14	16	$18\frac{2}{3}$	24	28
9	$26\frac{1}{2}$	$15\frac{3}{4}$	18	21	27	$31\frac{1}{2}$
10	$29\frac{1}{2}$	$17\frac{1}{2}$	20	$23\frac{1}{3}$	30	35
11	$32\frac{1}{2}$	$19\frac{1}{4}$	22	$25\frac{2}{3}$	33	$38\frac{1}{2}$
12	$35\frac{1}{2}$	21	24	28	36	42
13	$38\frac{1}{2}$	$22\frac{3}{4}$	26	$30\frac{1}{3}$	39	$45\frac{1}{2}$
14	$41\frac{1}{2}$	$24\frac{1}{2}$	28	$32\frac{2}{3}$	42	49
15	$44\frac{1}{2}$	$26\frac{1}{4}$	30	35	45	$52\frac{1}{2}$
16	$47\frac{1}{2}$	28	32	$37\frac{1}{3}$	48	56
17	$50\frac{1}{2}$	$29\frac{3}{4}$	34	$39\frac{2}{3}$	51	$59\frac{1}{2}$
18	$53\frac{1}{2}$	$31\frac{1}{2}$	36	42	54	63
19	$56\frac{1}{2}$	$33\frac{1}{4}$	38	$44\frac{1}{3}$	57	$66\frac{1}{2}$
20	$59\frac{1}{2}$	35	40	$46\frac{2}{3}$	60	70
21	$62\frac{1}{2}$	$36\frac{3}{4}$	42	49	63	$73\frac{1}{2}$
22	$65\frac{1}{2}$	$38\frac{1}{2}$	44	$51\frac{1}{3}$	66	77
23	$68\frac{1}{2}$	$40\frac{1}{4}$	46	$53\frac{2}{3}$	69	$80\frac{1}{2}$
24	$71\frac{1}{2}$	42	48	56	72	84
25	$74\frac{1}{2}$	$43\frac{3}{4}$	50	$58\frac{1}{3}$	75	$87\frac{1}{2}$
26	$77\frac{1}{2}$	$45\frac{1}{2}$	52	$60\frac{2}{3}$	78	91
27	$80\frac{1}{2}$	$47\frac{1}{4}$	54	63	81	$94\frac{1}{2}$
28	$83\frac{1}{2}$	49	56	$65\frac{1}{3}$	84	98
29	$86\frac{1}{2}$	$50\frac{3}{4}$	58	$67\frac{2}{3}$	87	$101\frac{1}{2}$
30	$89\frac{1}{2}$	$52\frac{1}{2}$	60	70	90	105

TAPPINGS— $1\frac{1}{2}$ inches top and bottom. Bushed for steam or water as per specifications.

Can be supplied on special order with 6-inch legs, or without legs at no extra charge.

For height of loop section only, subtract (3") inches from total height as shown above.

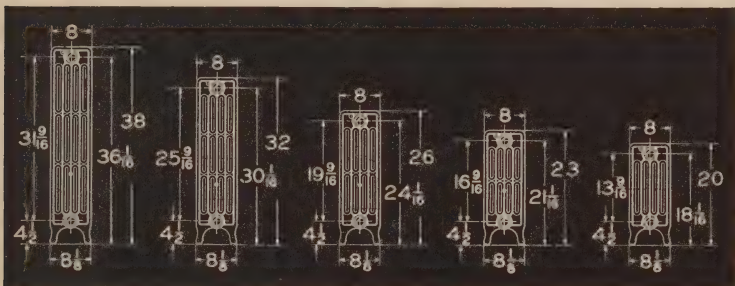
CONNECTIONS—Both steam and water—extra heavy $1\frac{1}{2}$ -inch right and left threaded nipples at top and bottom.

*Add $\frac{1}{2}$ inch to length for each bushing.

AMERICAN RADIATORS

AMERICAN CORTO HOSPITAL RADIATORS

Five-Tube



WIDTH, 8 INCHES; CENTERS, 3 INCHES

Number of Sections	* Length 3 Inches Per Section	HEATING SURFACE—SQUARE FEET				
		Based upon Engineering Standard of 240 B.t.u. emission per Square Foot per Hour				
		20-inch Height 2½ Sq. Ft. Per Section	23-inch Height 3 Sq. Ft. Per Section	26-inch Height 3½ Sq. Ft. Per Section	32-inch Height 4½ Sq. Ft. Per Section	38-inch Height 5 Sq. Ft. Per Section
2	5½	5½	6	7	8½	10
3	8½	8	9	10½	13	15
4	11½	10½	12	14	17½	20
5	14½	13½	15	17½	21½	25
6	17½	16	18	21	26	30
7	20½	18½	21	24½	30½	35
8	23½	21½	24	28	34½	40
9	26½	24	27	31½	39	45
10	29½	26½	30	35	43½	50
11	32½	29½	33	38½	47½	55
12	35½	32	36	42	52	60
13	38½	34½	39	45½	56½	65
14	41½	37½	42	49	60½	70
15	44½	40	45	52½	65	75
16	47½	42½	48	56	69½	80
17	50½	45½	51	59½	73½	85
18	53½	48	54	63	78	90
19	56½	50½	57	66½	82½	95
20	59½	53½	60	70	86½	100
21	62½	56	63	73½	91	105
22	65½	58½	66	77	95½	110
23	68½	61½	69	80½	99½	115
24	71½	64	72	84	104	120
25	74½	66½	75	87½	108½	125
26	77½	69½	78	91	112½	130
27	80½	72	81	94½	117	135
28	83½	74½	84	98	121½	140
29	86½	77½	87	101½	125½	145
30	89½	80	90	105	130	150

*Note: Due to height of end section hub, all lengths of complete radiators are reduced ½ in. per radiator.

TAPPINGS—1½ inches top and bottom. Bushed for steam or water as per specifications.

Can be supplied on special order with 6-inch legs, or without legs at no extra charge.

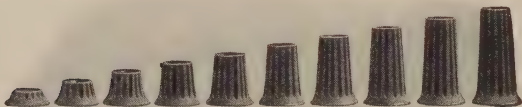
For height of loop section only, subtract (3") inches from total height as shown above.

CONNECTIONS—Both steam and water—extra heavy 1½-inch right and left threaded nipples at top and bottom.

*Add ½ inch to length for each bushing.

AMERICAN RADIATORS

CORTO RADIATOR PEDESTALS



Pedestals to fit under legs of all styles and heights of any of our Direct Radiators can be furnished in the following heights: $\frac{1}{2}$, 1, $1\frac{1}{2}$, 2, $2\frac{1}{2}$, 3, $3\frac{1}{2}$, 4, $4\frac{1}{2}$ and 5 inches. Made at Pierce Plant.

SPECIAL RADIATORS

All patterns of American Corto Radiators can be furnished in curved, corner, or angle patterns on special order at extra cost. Complete information, including plan sketch with necessary dimensions for production, must accompany order.

DIRECT RADIATOR WRENCH



These steel wrenches are made especially for assembling or disassembling Direct Radiators connected with right- and left-hand threaded nipples. Made in two lengths—2-foot and 4-foot.

VENTO AND INDIRECT RADIATOR WRENCH



These drop-forged steel wrenches are made especially for assembling Vento and Indirect Radiators connected with right- and left-hand threaded nipple having hexagon nut at center. Made for $1\frac{1}{2}$ - 2-, $2\frac{1}{2}$ - or 3-inch nipple openings.

AMERICAN RADIATORS

Tappings and Measurements

Apply to all American Radiators except Arco and Fantom.

Standard Tappings

One-Pipe Steam Work—Supply

Up to 24 square feet, inclusive.....	1 -inch
Above 24, up to 60 square feet.....	1¼-inch
Above 60 square feet.....	1½-inch

Two-Pipe Work—Supply and Return

Up to 48 square feet, inclusive.....	1 x ¾-inch
Above 48, up to 96 square feet.....	1¼ x 1 -inch
Above 96 square feet.....	1½ x 1¼-inch

Water Radiators

Tapped for Supply and Return

Up to 40 square feet, inclusive.....	1 x 1 -inch
Above 40, up to 72 square feet.....	1¼ x 1¼-inch
Above 72 square feet.....	1½ x 1½-inch

Air Valve and Vapor Tappings

All air-valve tappings of Direct Radiators are regularly made ⅛-inch.

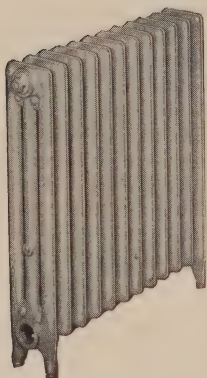
Vapor tappings, top and bottom opposite ends; supply ¾ inch, return ½-inch.

Threads of Openings

Unless otherwise ordered, all openings of Direct Radiators will have right-hand threads (except that of Wall Radiators where tapped 1½-inch, in which case tapping at one end is right-hand and left-hand on other end).

AMERICAN RADIATORS

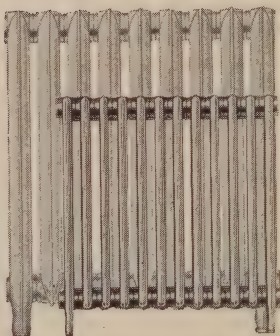
ARCO RADIATOR



Occupies about one-third less space than former types, but has same heat output.

Especially adapted for recessing, with Arco Radiator Enclosures.

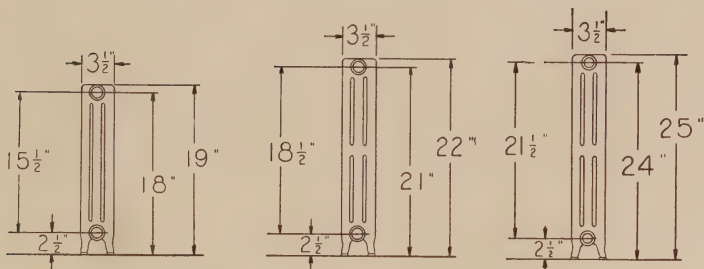
Illustration at right shows the relative size of the Arco Radiator as compared with former type.



AMERICAN RADIATORS

ARCO RADIATORS

Three-Tube



WIDTH $3\frac{1}{2}$ INCHES; CENTERS $1\frac{1}{2}$ INCHES

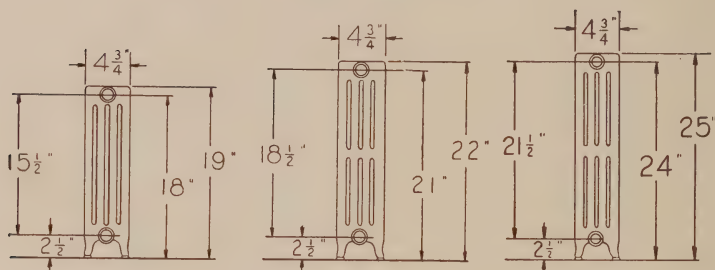
Number of Sections	Length $1\frac{1}{2}$ Inches Per Section	HEATING SURFACE—BASED UPON THE STANDARD HEAT EMISSION OF 240 B. T. U. PER SQUARE FOOT PER HOUR		
		19-Inch Height 1.1 Sq. Ft. Per Section	22-Inch Height 1.3 Sq. Ft. Per Section	25-Inch Height 1.5 Sq. Ft. Per Section
		0.733 Sq. Ft. Per Lineal Inch	0.867 Sq. Ft. Per Lineal Inch	1.000 Sq. Ft. Per Lineal Inch
2	3	2.2	2.6	3
3	$4\frac{1}{2}$	3.3	3.9	4.5
4	6	4.4	5.2	6
5	$7\frac{1}{2}$	5.5	6.5	7.5
6	9	6.6	7.8	9
7	$10\frac{1}{2}$	7.7	9.1	10.5
8	12	8.8	10.4	12
9	$13\frac{1}{2}$	9.9	11.7	13.5
10	15	11.0	13.0	15
11	$16\frac{1}{2}$	12.1	14.3	16.5
12	18	13.2	15.6	18
13	$19\frac{1}{2}$	14.3	16.9	19.5
14	21	15.4	18.2	21
15	$22\frac{1}{2}$	16.5	19.5	22.5
16	24	17.6	20.8	24
17	$25\frac{1}{2}$	18.7	22.1	25.5
18	27	19.8	23.4	27
19	$28\frac{1}{2}$	20.9	24.7	28.5
20	30	22.0	26.0	30
21	$31\frac{1}{2}$	23.1	27.3	31.5
22	33	24.2	28.6	33
23	$34\frac{1}{2}$	25.3	29.9	34.5
24	36	26.4	31.2	36
25	$37\frac{1}{2}$	27.5	32.5	37.5
26	39	28.6	33.8	39
27	$40\frac{1}{2}$	29.7	35.1	40.5
28	42	30.8	36.4	42
29	$43\frac{1}{2}$	31.9	37.7	43.5
30	45	33.0	39.0	45

CONNECTIONS—Both steam and water extra heavy 1-inch malleable nipples at top and bottom. Can be supplied on special order with $4\frac{1}{2}$ -inch legs, or without legs at no extra charge. For height of loop section only, subtract ($1\frac{1}{2}$ ") inches from total height as shown above. End sections regularly supplied with 1-inch tappings top and bottom, bushed if so specified. Can be tapped $1\frac{1}{4}$ inches if desired.

AMERICAN RADIATORS

ARCO RADIATORS

Four-Tube



WIDTH $4\frac{3}{4}$ INCHES; CENTERS $1\frac{1}{2}$ INCHES

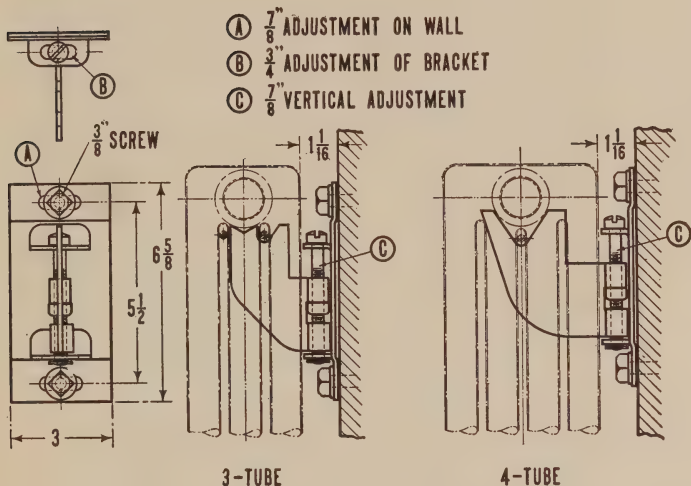
Number of Sections	Length $1\frac{1}{2}$ Inches Per Section	HEATING SURFACE—BASED UPON THE STANDARD HEAT EMISSION OF 240 B. T. U. PER SQUARE FOOT PER HOUR		
		19-Inch Height 1.4 Sq. Ft. Per Section	22-Inch Height 1.6 Sq. Ft. Per Section	25-Inch Height 1.8 Sq. Ft. Per Section
		0.933 Sq. Ft. Per Lineal Inch	1.067 Sq. Ft. Per Lineal Inch	1.200 Sq. Ft. Per Lineal Inch
2	3	2.8	3.2	3.6
3	$4\frac{1}{2}$	4.2	4.8	5.4
4	6	5.6	6.4	7.2
5	$7\frac{1}{2}$	7.0	8.0	9.0
6	9	8.4	9.6	10.8
7	$10\frac{1}{2}$	9.8	11.2	12.6
8	12	11.2	12.8	14.4
9	$13\frac{1}{2}$	12.6	14.4	16.2
10	15	14.0	16.0	18.0
11	$16\frac{1}{2}$	15.4	17.6	19.8
12	18	16.8	19.2	21.6
13	$19\frac{1}{2}$	18.2	20.8	23.4
14	21	19.6	22.4	25.2
15	$22\frac{1}{2}$	21.0	24.0	27.0
16	24	22.4	25.6	28.8
17	$25\frac{1}{2}$	23.8	27.2	30.6
18	27	25.2	28.8	32.4
19	$28\frac{1}{2}$	26.6	30.4	34.2
20	30	28.0	32.0	36.0
21	$31\frac{1}{2}$	29.4	33.6	37.8
22	33	30.8	35.2	39.6
23	$34\frac{1}{2}$	32.2	36.8	41.4
24	36	33.6	38.4	43.2
25	$37\frac{1}{2}$	35.0	40.0	45.0
26	39	36.4	41.6	46.8
27	$40\frac{1}{2}$	37.8	43.2	48.6
28	42	39.2	44.8	50.4
29	$43\frac{1}{2}$	40.6	46.4	52.2
30	45	42.0	48.0	54.0

CONNECTIONS—Both steam and water extra heavy 1-inch malleable nipples at top and bottom. Can be supplied on special order with $4\frac{1}{2}$ -inch legs, or without legs at no extra charge. For height of loop section only, subtract ($1\frac{1}{2}$ ") inches from total height as shown above. End sections regularly supplied with 1-inch tappings top and bottom, bushed if so specified. Can be tapped $1\frac{1}{4}$ inches if desired.

AMERICAN RADIATORS

ARCO RADIATOR BRACKETS

Dimensions and Data



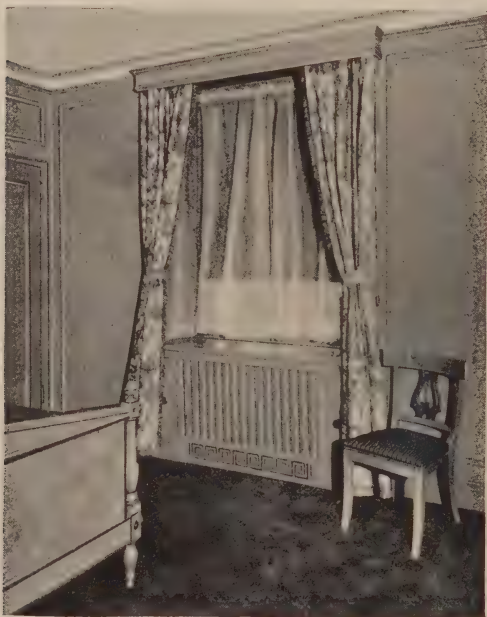
ARCO RADIATOR PEDESTALS



Pedestals to fit under legs of the 3- and 4-Tube Arco Radiators can be furnished in the following heights— $\frac{1}{2}$ "—1" and $1\frac{1}{2}$ ".

AMERICAN RADIATORS

THE AMERICAN FANTOM RADIATOR



Patent Pending

AMERICAN FANTOM RADIATOR—CAMPBELL METAL WINDOW UNIT IN THE SAVOY PLAZA HOTEL, NEW YORK CITY

THE American Fantom Radiator supplies uniform heat by radiation into the lower part of the room where most needed, and by the circulation of warmed air to check window drafts and to permeate the whole room. Its exposed surface can be tinted any color in harmony with the decorative scheme. The Fantom requires little space, is accessible for cleaning and offers an excellent means of heat delivery.

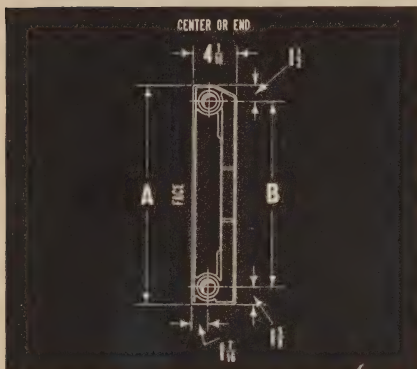
The American Fantom Radiator and Campbell Metal Window illustrated above is an especially efficient and attractive combination. Arrangements of this unit are shown on pages 24 to 26.

AMERICAN RADIATORS

AMERICAN FANTOM RADIATORS

17-Inch, 20-Inch and 23-Inch One Tube

WIDTH $4\frac{1}{16}$ INCHES; CENTERS $2\frac{1}{2}$ INCHES



DIMENSIONS—ONE TUBE

	A	B
17"	$17\frac{1}{16}$	$13\frac{15}{16}$
20"	20	$16\frac{15}{16}$
23"	$22\frac{13}{16}$	$19\frac{11}{16}$

TAPPINGS— $1\frac{1}{4}$ inches top and bottom. Bushed for steam or water as per specifications.

CONNECTIONS—Both steam and water—extra heavy $1\frac{1}{4}$ -inch right and left threaded nipples at top and bottom.

Number of Sections	* Length $2\frac{1}{2}$ Inches Per Section	† 17 Inches Height $1\frac{3}{4}$ Square Feet Per Section	† 20 Inches Height 2 Square Feet Per Section	† 23 Inches Height $2\frac{1}{4}$ Square Feet Per Section
2	5	$3\frac{1}{2}$	4	$4\frac{1}{2}$
3	$7\frac{1}{2}$	$5\frac{1}{4}$	6	$6\frac{3}{4}$
4	10	7	8	9
5	$12\frac{1}{2}$	$8\frac{3}{4}$	10	$11\frac{1}{4}$
6	15	$10\frac{1}{2}$	12	$13\frac{1}{2}$
7	$17\frac{1}{2}$	$12\frac{1}{4}$	14	$15\frac{3}{4}$
8	20	14	16	18
9	$22\frac{1}{2}$	$15\frac{3}{4}$	18	$20\frac{1}{4}$
10	25	$17\frac{1}{2}$	20	$22\frac{1}{2}$
11	$27\frac{1}{2}$	$19\frac{1}{4}$	22	$24\frac{3}{4}$
12	30	21	24	27
13	$32\frac{1}{2}$	$22\frac{3}{4}$	26	$29\frac{1}{4}$
14	35	$24\frac{1}{2}$	28	$31\frac{1}{2}$
15	$37\frac{1}{2}$	$26\frac{1}{4}$	30	$33\frac{3}{4}$
16	40	28	32	36
17	$42\frac{1}{2}$	$29\frac{3}{4}$	34	$38\frac{1}{4}$
18	45	$31\frac{1}{2}$	36	$40\frac{1}{2}$
19	$47\frac{1}{2}$	$33\frac{1}{4}$	38	$42\frac{3}{4}$
20	50	35	40	45
21	$52\frac{1}{2}$	$36\frac{3}{4}$	42	$47\frac{1}{4}$
22	55	$38\frac{1}{2}$	44	$49\frac{1}{2}$
23	$57\frac{1}{2}$	$40\frac{1}{4}$	46	$51\frac{3}{4}$
24	60	42	48	54
25	$62\frac{1}{2}$	$43\frac{3}{4}$	50	$56\frac{1}{4}$

* Add $\frac{1}{2}$ inch to length for each bushing.

† Based on Engineering Standards of 215 degrees Fahrenheit steam temperature, 70 degrees room temperature and 240 B.t.u. per square foot per hour.

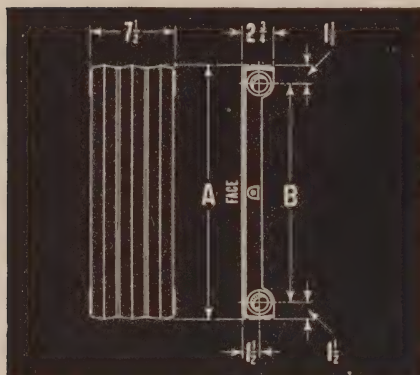
Regularly furnished without legs, but can be supplied on special order with $4\frac{1}{2}$ " legs only at no extra charge.

AMERICAN RADIATORS

AMERICAN FANTOM RADIATORS

17-Inch and 23-Inch Two Tube

WIDTH $2\frac{3}{4}$ INCHES; CENTERS $7\frac{1}{2}$ INCHES



	A	B
17-Inch.....	17	14
23-Inch.....	$22\frac{3}{4}$	$19\frac{3}{4}$

TAPPINGS— $1\frac{1}{4}$ inches top and bottom. Bushed for steam or water as per specifications.

NOTE: Two Tube Phantom Radiators used for water systems are to be vented through tapped Top Plug provided on specification.

CONNECTIONS—Both steam and water—extra heavy $1\frac{1}{4}$ -inch right and left threaded nipples at top and bottom.

Number of Sections	* Length Over All Inches	† 17 Inches Height	† 23 Inches Height
		$3\frac{1}{2}$ Square Feet Per Section	$4\frac{1}{4}$ Square Feet Per Section
2	15	$6\frac{2}{3}$	$8\frac{1}{2}$
3	$22\frac{1}{2}$	10	$12\frac{3}{4}$
4	30	$13\frac{1}{3}$	17
5	$37\frac{1}{2}$	$16\frac{2}{3}$	$21\frac{1}{4}$
6	45	20	$25\frac{1}{2}$
7	$52\frac{1}{2}$	$23\frac{1}{3}$	$29\frac{3}{4}$
8	60	$26\frac{2}{3}$	34
9	$67\frac{1}{2}$	30	$38\frac{1}{4}$
10	75	$33\frac{1}{3}$	$42\frac{1}{2}$
11	$82\frac{1}{2}$	$36\frac{2}{3}$	$46\frac{3}{4}$
12	90	40	51
13	$97\frac{1}{2}$	$43\frac{1}{3}$	$55\frac{1}{4}$
14	105	$46\frac{2}{3}$	$59\frac{1}{2}$
15	$112\frac{1}{2}$	50	$63\frac{3}{4}$
16	120	$53\frac{1}{3}$	68

* Add $\frac{1}{2}$ inch to length for each bushing.

† Based on Engineering Standards of 215 degrees Fahrenheit steam temperature, 70 degrees room temperature and 240 B.t.u. per square foot per hour.

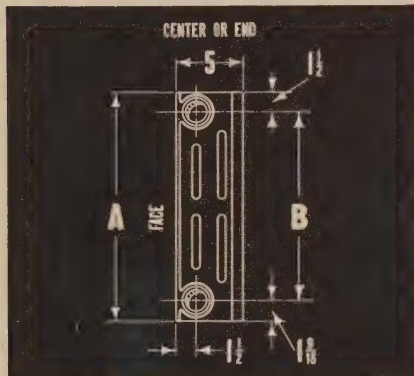
Furnished without legs only.

AMERICAN RADIATORS

AMERICAN FANTOM RADIATORS

17-Inch, 20-Inch and 23-Inch Three Tube

WIDTH 5 INCHES; CENTERS $2\frac{1}{2}$ INCHES



DIMENSIONS—THREE TUBE

	A	B
17"	17	$13\frac{15}{16}$
20"	20	$16\frac{15}{16}$
23"	$22\frac{3}{4}$	$19\frac{11}{16}$

TAPPING— $1\frac{1}{4}$ inches top and bottom. Bushed for steam or water as per specifications.

CONNECTIONS—Both steam and water—extra heavy $1\frac{1}{4}$ -inch right and left threaded nipples top and bottom.

Number of Sections	* Length $2\frac{1}{2}$ Inches Per Section	† 17 Inches Height 2 Square Feet Per Section	† 20 Inches Height $2\frac{2}{3}$ Square Feet Per Section	† 23 Inches Height $2\frac{2}{3}$ Square Feet Per Section
2	5	4	$4\frac{2}{3}$	$5\frac{1}{3}$
3	$7\frac{1}{2}$	6	7	8
4	10	8	$9\frac{1}{3}$	$10\frac{2}{3}$
5	$12\frac{1}{2}$	10	$11\frac{2}{3}$	$13\frac{1}{3}$
6	15	12	14	16
7	$17\frac{1}{2}$	14	$16\frac{2}{3}$	$18\frac{2}{3}$
8	20	16	$18\frac{2}{3}$	$21\frac{1}{3}$
9	$22\frac{1}{2}$	18	21	24
10	25	20	$23\frac{1}{3}$	$26\frac{2}{3}$
11	$27\frac{1}{2}$	22	$25\frac{2}{3}$	$29\frac{1}{3}$
12	30	24	28	32
13	$32\frac{1}{2}$	26	$30\frac{1}{3}$	$34\frac{2}{3}$
14	35	28	$32\frac{2}{3}$	$37\frac{1}{3}$
15	$37\frac{1}{2}$	30	35	40
16	40	32	$37\frac{1}{3}$	$42\frac{2}{3}$
17	$42\frac{1}{2}$	34	$39\frac{2}{3}$	$45\frac{1}{3}$
18	45	36	42	48
19	$47\frac{1}{2}$	38	$44\frac{1}{3}$	$50\frac{2}{3}$
20	50	40	$46\frac{2}{3}$	$53\frac{1}{3}$
21	$52\frac{1}{2}$	42	49	56
22	55	44	$51\frac{1}{3}$	$58\frac{2}{3}$
23	$57\frac{1}{2}$	46	$53\frac{2}{3}$	$61\frac{1}{3}$
24	60	48	56	64
25	$62\frac{1}{2}$	50	$58\frac{1}{3}$	$66\frac{2}{3}$

* Add $\frac{1}{2}$ inch to length for each bushing.

† Based on Engineering Standards of 215 degrees Fahrenheit steam temperature, 70 degrees room temperature and 240 degrees B.t.u. per square foot per hour.

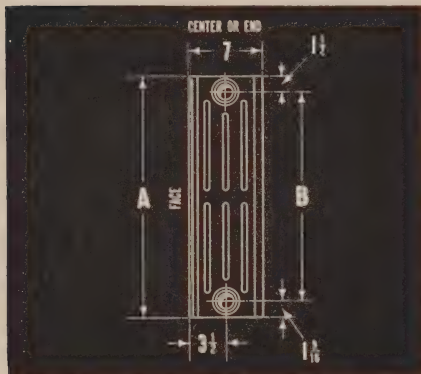
Regularly furnished without legs, but can be supplied on special order with $4\frac{1}{2}$ " legs only at no extra charge.

AMERICAN RADIATORS

AMERICAN FANTOM RADIATORS

17-Inch, 20-Inch and 23-Inch Four Tube

WIDTH 7 INCHES; CENTERS 2½ INCHES



DIMENSIONS—FOUR TUBE

	A	B
17"	17	13 ¹⁵ / ₁₆
20"	20	16 ¹⁵ / ₁₆
23"	23	19 ¹¹ / ₁₆

TAPPINGS—1¼ inch top and bottom. Bushed for steam or water as per specifications.

CONNECTIONS—Both steam and water—extra heavy 1¼-inch right and left threaded nipples at top and bottom.

Number of Sections	* Length 2½ Inches Per Section	† 17 Inches Height 2⅔ Square Feet Per Section	† 20 Inches Height 3 Sq. Ft. Per Section	† 23 Inches Height 3⅓ Square Feet Per Section
2	5	5⅛	6	6⅜
3	7½	8	9	10
4	10	10⅜	12	13⅜
5	12½	13⅜	15	16⅜
6	15	16	18	20
7	17½	18⅜	21	23⅜
8	20	21⅜	24	26⅜
9	22½	24	27	30
10	25	26⅜	30	33⅜
11	27½	29⅜	33	36⅜
12	30	32	36	40
13	32½	34⅜	39	43⅜
14	35	37⅜	42	46⅜
15	37½	40	45	50
16	40	42⅜	48	53⅜
17	42½	45⅜	51	56⅜
18	45	48	54	60
19	47½	50⅜	57	63⅜
20	50	53⅜	60	66⅜
21	52½	56	63	70
22	55	58⅜	66	73⅜
23	57½	61⅜	69	76⅜
24	60	64	72	80
25	62½	66⅜	75	83⅜

* Add ½ inch to length for each bushing.

† Based on Engineering Standards of 215 degrees Fahrenheit steam temperature, 70 degrees room temperature and 240 B.t.u. per square foot per hour.

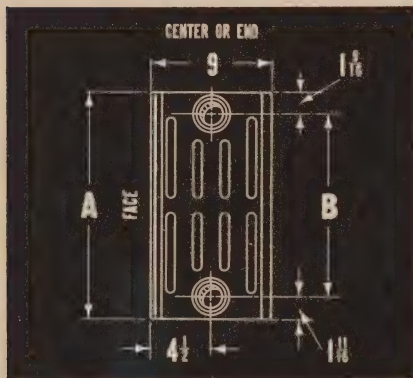
Regularly furnished without legs, but can be supplied on special order with 4½" legs only at no extra charge.

AMERICAN RADIATORS

AMERICAN FANTOM RADIATORS

17-Inch and 23-Inch Five Tube

WIDTH 9 INCHES; CENTERS $2\frac{1}{2}$ INCHES



DIMENSIONS—FIVE TUBE

	A	B
17"	17	14
23"	$22\frac{3}{4}$	$19\frac{1}{2}$

TAPPINGS— $1\frac{1}{2}$ inches top and bottom. Bushed for steam or water as per specifications.

CONNECTIONS—Both steam and water—extra heavy $1\frac{1}{2}$ -inch right and left threaded nipples at top and bottom.

Number of Sections	* Length $2\frac{1}{2}$ Inches Per Section	† 17 Inches Height $3\frac{1}{4}$ Square Feet Per Section	† 23 Inches Height 4 Square Feet Per Section
2	5	$6\frac{1}{2}$	8
3	$7\frac{1}{2}$	$9\frac{3}{4}$	12
4	10	13	16
5	$12\frac{1}{2}$	$16\frac{1}{4}$	20
6	15	$19\frac{1}{2}$	24
7	$17\frac{1}{2}$	$22\frac{3}{4}$	28
8	20	26	32
9	$22\frac{1}{2}$	$29\frac{1}{4}$	36
10	25	$32\frac{1}{2}$	40
11	$27\frac{1}{2}$	$35\frac{3}{4}$	44
12	30	39	48
13	$32\frac{1}{2}$	$42\frac{1}{4}$	52
14	35	$45\frac{1}{2}$	56
15	$37\frac{1}{2}$	$48\frac{3}{4}$	60
16	40	52	64
17	$42\frac{1}{2}$	$55\frac{1}{4}$	68
18	45	$58\frac{1}{2}$	72
19	$47\frac{1}{2}$	$61\frac{3}{4}$	76
20	50	65	80
21	$52\frac{1}{2}$	$68\frac{1}{4}$	84
22	55	$71\frac{1}{2}$	88
23	$57\frac{1}{2}$	$74\frac{3}{4}$	92
24	60	78	96
25	$62\frac{1}{2}$	$81\frac{1}{4}$	100

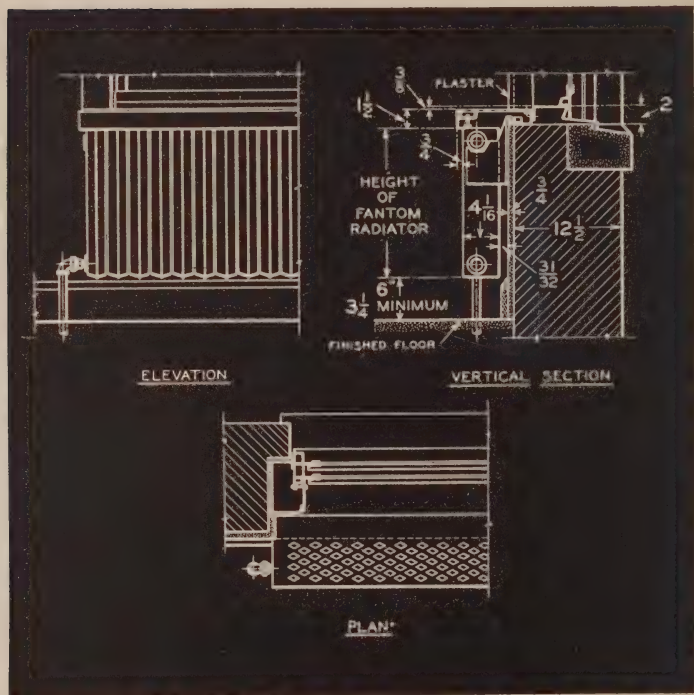
* Add $\frac{1}{2}$ inch to length for each bushing.

† Based on Engineering Standards of 215 degrees Fahrenheit steam temperature, 70 degrees room temperature and 240 B.t.u. per square foot per hour.

Regularly furnished without legs, but can be supplied on special order with $4\frac{1}{2}$ " legs only at no extra charge.

AMERICAN RADIATORS

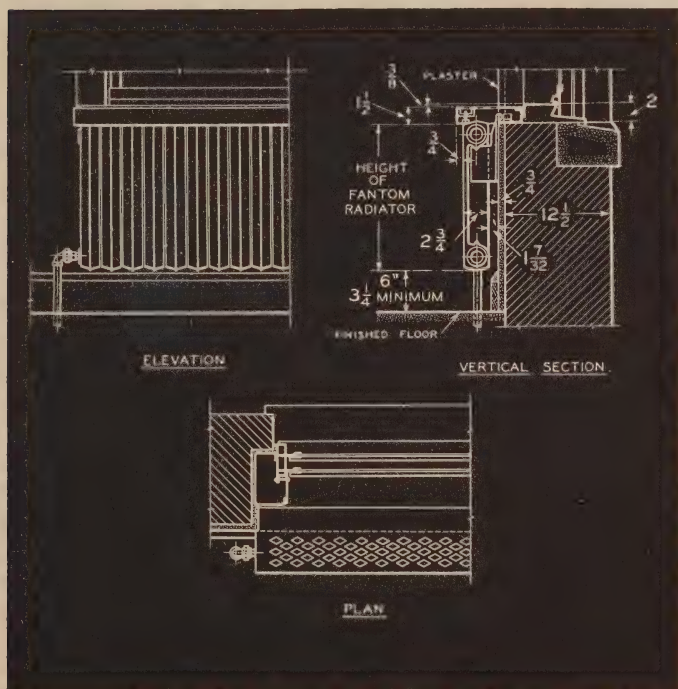
AMERICAN FANTOM RADIATOR AND CAMPBELL METAL WINDOW



ARRANGEMENT OF CAMPBELL RESIDENCE TYPE WINDOW AND ONE TUBE
AMERICAN FANTOM RADIATOR

AMERICAN RADIATORS

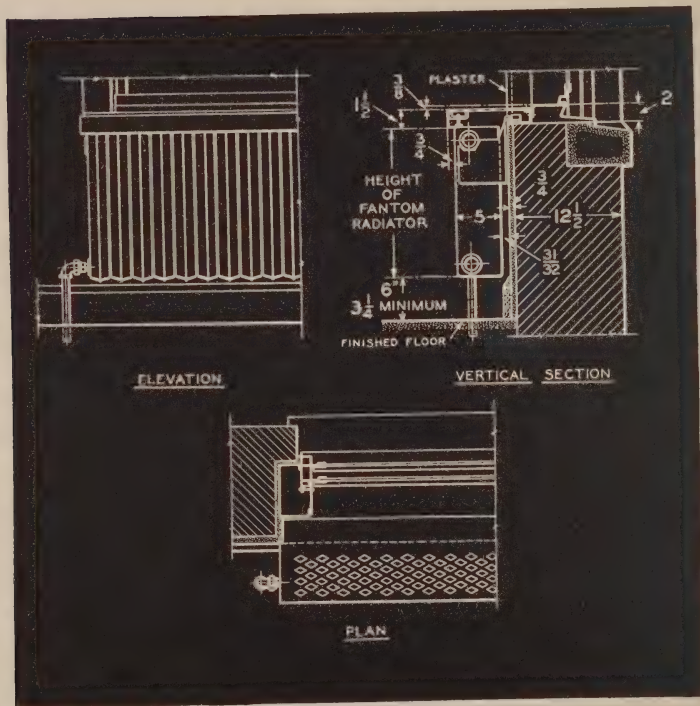
AMERICAN FANTOM RADIATOR AND CAMPBELL METAL WINDOW



ARRANGEMENT OF CAMPBELL RESIDENCE TYPE WINDOW AND TWO TUBE
AMERICAN FANTOM RADIATOR

AMERICAN RADIATORS

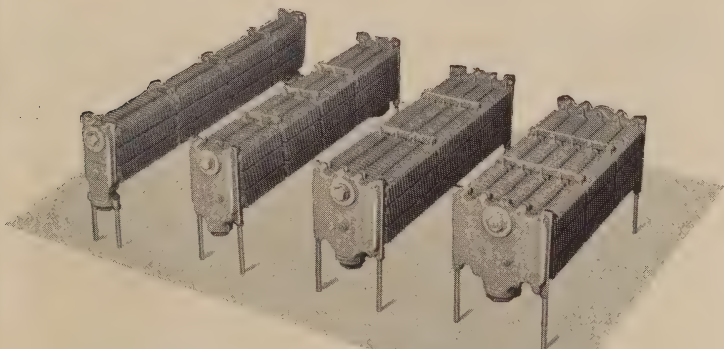
AMERICAN FANTOM RADIATOR AND CAMPBELL METAL WINDOW



ARRANGEMENT OF CAMPBELL RESIDENCE TYPE WINDOW AND THREE TUBE
AMERICAN FANTOM RADIATOR

AMERICAN RADIATORS

ARCO CONVECTOR



ILLUSTRATING THE FOUR WIDTHS OF
THE ARCO CONVECTOR

No. 3-3 $\frac{3}{4}$ " No. 5-5 $\frac{5}{8}$ " No. 7-7 $\frac{5}{8}$ " No. 9-9 $\frac{1}{2}$ "

THE Arco Convector—ratings and detailed dimensions of which are presented on the following pages—is a product of the American Radiator Company, scientifically engineered, and carefully and dependably rated in the laboratory of the Institute of Thermal Research. It is manufactured in the plants of this Company which have for many years produced other highly satisfactory cast iron heating radiators and boilers.

The Arco Convector is a unit of assembled cast iron finned sections and headers united with malleable nipples.

The fins are cast integral with the cored sections and are spaced to allow a steady and continuous flow of heated air throughout the entire surface.

The sections have ample cored space to insure unhampered circulation of steam or hot water and proper air elimination at varying steam pressures.

The design of the Arco Convector provides an exceptionally flexible unit as to length and depth to meet the varying conditions of building construction and with its low height permits installation in minimum space allowances.

The tappings in the headers give a wide choice of piping connections to the Convector, simplifying the installation and, at times, eliminating costly piping arrangements which also require space that is not always available within the wall recess.

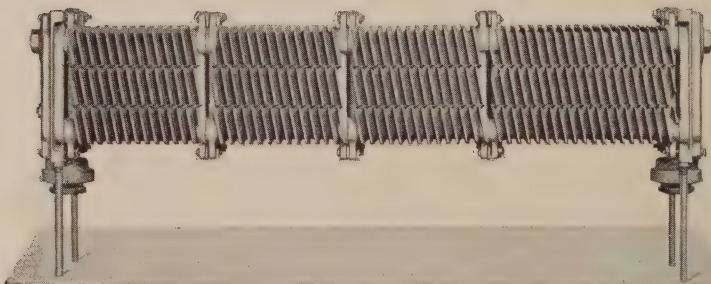
Arco Convectors are made of cast iron sections—all contacting surfaces of which are machine ground—assembled with malleable nipples and individual tie bolts at each nipple port. This construction develops an exceptionally sturdy unit—able to withstand the usual handling abuses met with before final installation.

Arco Convectors also possess a long “carry-over” output, a distinct advantage when installed with automatically controlled heating apparatus.

The Arco Convector is equally well adapted for steam, vapor or hot water systems and, when installed with Arco Enclosures, combines high heating efficiency with attractive appearance.

AMERICAN RADIATORS

ARCO CONVECTOR



A Unit No. 535 Arco Convector, $5\frac{5}{8}$ " wide and $35\frac{1}{2}$ " long, an assemblage of two headers (supply and return) 1-10" intermediate finned section and $3-7\frac{1}{2}$ " intermediate finned sections—with Type X 4-header connections for piping, and adjustable legs.

THE design of the Arco Convector provides units of four widths—No. $3-3\frac{3}{4}$ ", No. $5-5\frac{5}{8}$ ", No. $7-7\frac{5}{8}$ ", and No. $9-9\frac{1}{2}$ ", and in lengths varying in $2\frac{1}{2}$ " steps, above 13" long (except the $15\frac{1}{2}$ " length).

The supply and return headers of every Arco Convector are each $1\frac{1}{2}$ " in the length of the unit—The intermediate finned sections are made in two lengths, 10" and $7\frac{1}{2}$ ", and the proper selection of one or more sections of either or both lengths, assembled with the headers, provides units in lengths varying in $2\frac{1}{2}$ " steps, as mentioned above and definitely shown on the rating charts on pages 31 and 32.

Malleable slip nipples are used in assembling the sections and headers—individual tie bolts at each nipple port insure leak proof connections which will not loosen despite the stresses and strains of handling.

Each header (supply and return) is reversible and, therefore, top, bottom, and side tappings are provided for piping connections.

The various types of piping connections are shown on page 30.

Arco Convertors should be ordered with the proper type of connection specified and they will be shipped accordingly from the plant, bushed as desired. All tappings not used will be plugged.

The great variety of piping connections provided permit simple installation of steam, vapor and hot water systems in limited space allowances.

The No. 3, No. 5 and No. 7 units are tapped $1\frac{1}{4}$ " and the No. 9 unit is tapped $1\frac{1}{2}$ ".

Adjustable steel legs are furnished (without charge) to support the Convector, and are screwed into tappings in the bottom of each header, permitting adjustment for leveling or pitching the Convector as desired.

In ordering specify "Arco Convector," Unit number, type of connections and tapping sizes.

Unless otherwise specified all Arco Convector Units will be shipped with standard supporting legs of a height to bring the bottom of the fins on intermediate sections 7" from floor.

Arco Enclosures, designed especially for the Arco Convector are fabricated by the American Radiator Company.

Their use with the Arco Convector insures to the owner, an attractive concealed unit of modern design.

Steam and water ratings of the Arco Convector as shown on pages 31 and 32 are based on installation with Front Outlet Grille Enclosures.

Where top outlet grilles are used in enclosures—output ratings may be increased as follows:

11"	Stack Heights multiply ratings by	1.15
13"	" " " " "	1.10
15"	" " " " "	1.06
17"	" " " " "	1.04
19"	" " " " "	1.02

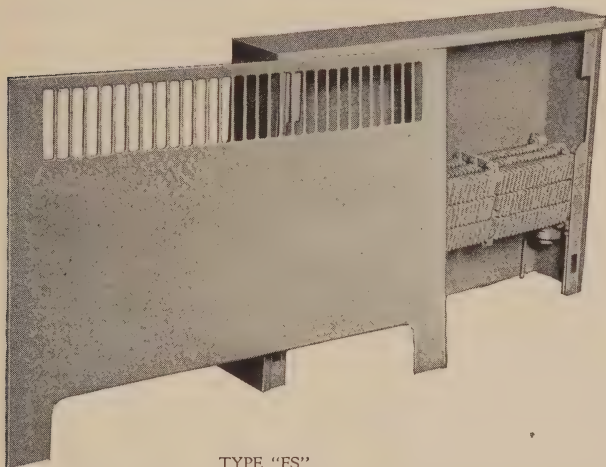
No increase beyond 19" Stack heights.

AMERICAN RADIATORS

ARCO CONVECTORS

Standard Enclosures and Front Panels

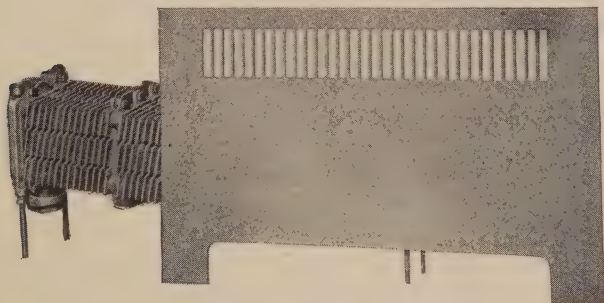
COMPLETE ENCLOSURE



TYPE "FS"

Type "FS" is a complete enclosure for Arco Convector, consisting of top, back, ends and a removable front. It can be fully recessed, partially recessed or completely free standing in the room.

FRONT PANEL TYPES



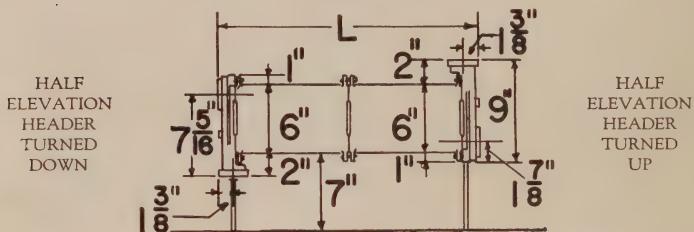
TYPE "FP"

Type "FP" is a Front Panel only for use with fully recessed Arco Convector units where the recess is of sufficient depth to allow flush treatment.

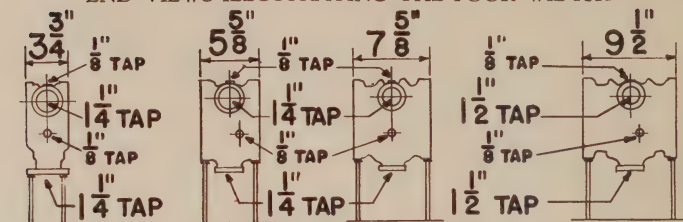
For complete line of Arco Radiator Enclosures see Arco Enclosure catalog.

AMERICAN RADIATORS

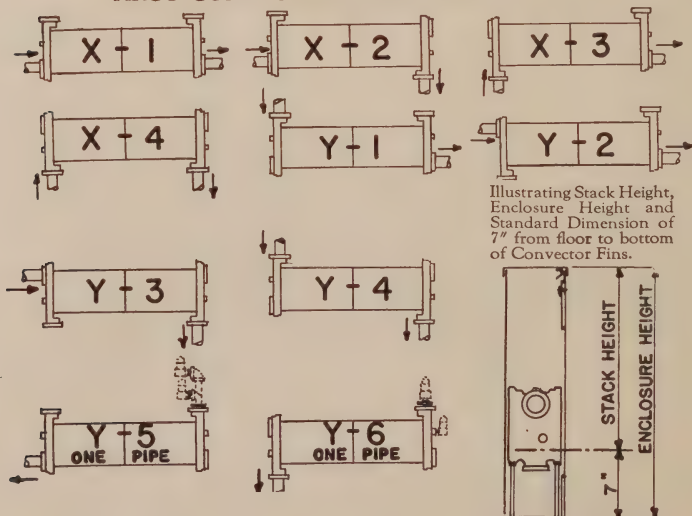
ARCO CONVECTOR DIMENSIONS AND ASSEMBLAGES



END VIEWS ILLUSTRATING THE FOUR WIDTHS



ARCO CONVECTOR PIPING CONNECTIONS



Illustrating Stack Height, Enclosure Height and Standard Dimension of $7"$ from floor to bottom of Convector Fins.

AMERICAN RADIATORS

ARCO CONVECTOR STEAM OR WATER RATINGS

*Output in Sq. Ft. Equivalent Direct Radiation

Convactor No. 3 (3 $\frac{3}{4}$ " Wide) Convactor No. 5 (5 $\frac{5}{8}$ " Wide)

Length in Inches		13	18	20½	23	25½	28	30½	33	35½	38	40½	43	45½	48	50½	53	55½	58	60½
Unit No.		313	318	320	323	325	328	330	333	335	338	340	343	345	348	350	353	355	358	360
ENCLOSURE HEIGHT																				
18	11	6.0	8.4	9.7	10.9	12.1	13.3	14.5	15.8	17.0	18.2	19.4	20.6	21.8	23.1	24.3	25.5	26.7	28.0	29.2
20	13	6.5	9.1	10.5	11.8	13.1	14.4	15.7	17.1	18.4	19.7	21.0	22.3	23.6	25.0	26.3	27.6	28.9	30.3	31.6
22	15	7.0	9.8	11.2	12.7	14.1	15.5	16.9	18.4	19.8	21.3	22.6	24.1	25.4	26.9	28.3	29.8	31.1	32.6	34.0
24	17	7.5	10.5	12.0	13.5	15.0	16.5	18.1	19.7	21.1	22.7	24.2	25.7	27.2	28.7	30.2	31.8	33.3	34.8	36.3
STACK HEIGHT INCHES																				
26	19	7.8	11.0	12.6	14.2	15.8	17.4	19.0	20.6	22.2	23.8	25.3	26.9	28.5	30.1	31.7	33.3	34.9	36.5	38.1
29	22	8.2	11.5	13.1	14.8	16.4	18.1	19.8	21.5	23.1	24.8	26.4	28.1	29.7	31.4	33.0	34.7	36.3	38.0	39.6
32	25	8.4	11.8	13.5	15.2	16.9	18.6	20.4	22.1	23.8	25.5	27.2	28.9	30.6	32.3	34.0	35.7	37.4	39.1	40.8
35	28	8.6	12.1	13.8	15.6	17.3	19.0	20.8	22.6	24.3	26.1	27.8	29.6	31.3	33.1	34.8	36.5	38.2	40.0	41.7
STACK HEIGHT INCHES																				
38	31	8.8	12.3	14.1	15.9	17.6	19.4	21.2	23.0	24.7	26.5	28.3	30.1	31.8	33.6	35.4	37.2	38.9	40.7	42.5
42	35	8.9	12.5	14.3	16.1	17.9	19.8	21.6	23.4	25.2	27.0	28.8	30.6	32.4	34.2	36.1	37.9	39.7	41.5	43.3
47	40	9.1	12.8	14.6	16.5	18.3	20.2	22.0	23.9	25.7	27.6	29.4	31.3	33.1	35.0	36.8	38.7	40.5	42.4	44.2
57	50	9.4	13.2	15.1	17.0	18.9	20.8	22.7	24.6	26.5	28.4	30.3	32.2	34.1	36.0	37.9	39.8	41.7	43.6	45.5

Length in Inches		13	18	20½	23	25½	28	30½	33	35½	38	40½	43	45½	48	50½	53	55½	58	60½
Unit No.		513	518	520	523	525	528	530	533	535	538	540	543	545	548	550	553	555	558	560
ENCLOSURE HEIGHT																				
18	11	8.7	12.3	14.1	15.9	17.7	19.5	21.3	23.1	24.9	26.7	28.5	30.3	32.1	33.9	35.7	37.5	39.3	41.1	42.9
20	13	9.5	13.5	15.4	17.4	19.3	21.3	23.2	25.2	27.2	29.2	31.1	33.1	35.0	37.0	38.9	40.9	42.8	44.8	46.7
22	15	10.3	14.5	16.6	18.7	20.8	23.0	25.1	27.2	29.3	31.4	33.5	35.6	37.7	39.8	42.0	44.1	46.2	48.3	50.4
24	17	10.9	15.4	17.6	19.9	22.2	24.4	26.6	28.9	31.1	33.4	35.6	37.9	40.1	42.4	44.6	46.8	49.0	51.3	53.5
STACK HEIGHT INCHES																				
26	19	11.5	16.2	18.5	20.9	23.2	25.6	28.0	30.4	32.7	35.1	37.4	39.8	42.1	44.5	46.8	49.2	51.5	53.9	56.3
29	22	12.0	17.0	19.4	21.9	24.4	26.9	29.3	31.8	34.3	36.8	39.2	41.7	44.2	46.7	49.1	51.6	54.0	56.5	59.0
32	25	12.4	17.5	20.1	22.6	25.2	27.7	30.3	32.9	35.4	38.0	40.5	43.1	45.6	48.1	50.7	53.3	55.8	58.4	60.9
35	28	12.7	17.9	20.5	23.1	25.7	28.3	30.9	33.5	36.1	38.7	41.3	43.9	46.5	49.1	51.7	54.3	56.9	59.5	62.1
STACK HEIGHT INCHES																				
38	31	12.9	18.2	20.8	23.5	26.1	28.8	31.4	34.1	36.7	39.4	42.0	44.7	47.3	50.0	52.6	55.3	57.9	60.6	63.2
42	35	13.2	18.6	21.3	24.0	26.7	29.4	32.1	34.8	37.5	40.2	42.9	45.6	48.4	51.1	53.8	56.5	59.2	61.9	64.6
47	40	13.5	19.0	21.8	24.5	27.2	30.0	32.8	35.6	38.3	41.1	43.8	46.6	49.4	52.2	54.9	57.7	60.4	63.2	65.9
57	50	13.8	19.5	22.4	25.2	28.1	30.9	33.8	36.6	39.4	42.3	45.1	48.0	50.8	53.7	56.5	59.4	62.2	65.1	67.9

Above ratings based on front outlet enclosures. For top outlet rating see table on page 28.

Standard Enclosure Heights are Stack Height Plus 7"

*To determine size of radiator divide total heat loss in B.t.u. by 240 for steam at 215°, or by 150 B.t.u. for water at 175°. For other water temperatures see page 38.

AMERICAN RADIATORS

ARCO CONVECTOR STEAM OR WATER RATINGS

*Output in Sq. Ft. Equivalent Direct Radiation

Convector No. 7 (7 $\frac{5}{8}$ " Wide) Convector No. 9 (9 $\frac{1}{2}$ " Wide)

Length in Inches	Unit No.	13	18	20 $\frac{1}{2}$	23	25 $\frac{1}{2}$	28	30 $\frac{1}{2}$	33	35 $\frac{1}{2}$	38	40 $\frac{1}{2}$	43	45 $\frac{1}{2}$	48	50 $\frac{1}{2}$	53	55 $\frac{1}{2}$	58	60 $\frac{1}{2}$
		713	718	720	723	725	728	730	733	735	738	740	743	745	748	750	753	755	758	760
ENCLOSURE HEIGHT	20	13	12.1	19.7	22.2	24.7	27.2	29.7	32.2	34.7	37.2	39.7	42.3	44.8	47.3	49.8	52.3	54.8	57.3	59.8
	22	15	12.9	18.3	21.0	23.6	26.3	29.0	31.7	34.4	37.0	39.7	42.3	45.0	47.7	50.4	53.1	55.8	58.4	61.1
	24	17	13.7	19.4	22.2	25.0	27.9	30.7	33.6	36.4	39.2	42.1	44.9	47.8	50.6	53.5	56.3	59.2	62.0	64.9
	26	19	14.4	20.4	23.4	26.4	29.4	32.4	35.4	38.4	41.3	44.3	47.3	50.3	53.3	56.3	59.3	62.3	65.3	68.3
	29	22	15.3	21.6	24.8	27.9	31.1	34.2	37.4	40.6	43.7	46.9	50.1	53.3	56.4	59.6	62.7	65.9	69.0	72.2
	32	25	15.9	22.5	25.8	29.1	32.4	35.7	39.0	42.3	45.6	48.9	52.2	55.5	58.7	62.0	65.3	68.6	71.9	75.2
	35	28	16.4	23.1	26.5	29.9	33.3	36.7	40.1	43.5	46.9	50.3	53.7	57.1	60.4	63.8	67.2	70.6	74.0	77.4
	38	31	16.7	23.7	27.1	30.6	34.1	37.5	41.0	44.5	47.9	51.4	54.9	58.4	61.8	65.3	68.8	72.3	75.7	79.2
STACK HEIGHT INCHES	42	35	17.1	24.2	27.7	31.3	34.8	38.3	41.9	45.5	49.0	52.6	56.1	59.7	63.2	66.8	70.3	73.8	77.3	80.9
	47	40	17.5	24.7	28.4	32.0	35.6	39.3	42.9	46.6	50.1	53.8	57.4	61.1	64.7	68.4	72.0	75.7	79.2	82.9
	52	45	17.8	25.2	28.9	32.6	36.3	40.0	43.7	47.4	51.1	54.8	58.5	62.2	65.9	69.6	73.3	77.0	80.7	84.4
	57	50	18.1	25.7	29.4	33.2	40.7	44.5	48.3	52.0	55.8	59.5	63.3	67.0	70.8	74.5	78.3	82.0	85.8	89.5

Length in Inches	Unit No.	13	18	20 $\frac{1}{2}$	23	25 $\frac{1}{2}$	28	30 $\frac{1}{2}$	33	35 $\frac{1}{2}$	38	40 $\frac{1}{2}$	43	45 $\frac{1}{2}$	48	50 $\frac{1}{2}$	53	55 $\frac{1}{2}$	58	60 $\frac{1}{2}$
		913	918	920	923	925	928	930	933	935	938	940	943	945	948	950	953	955	958	960
ENCLOSURE HEIGHT	20	13	14.5	20.6	23.7	26.7	29.8	32.8	35.9	38.9	41.9	45.0	48.0	51.1	54.1	57.2	60.2	63.3	66.3	69.4
	22	15	15.5	22.0	25.3	28.5	31.8	35.0	38.3	41.6	44.8	48.1	51.3	54.6	57.8	61.1	64.3	67.6	70.8	74.1
	24	17	16.5	23.4	26.9	30.3	33.8	37.2	40.7	44.2	47.6	51.1	54.5	58.0	61.4	64.9	68.3	71.8	75.2	78.7
	26	19	17.3	24.6	28.2	31.8	35.5	39.1	42.7	46.3	50.0	53.6	57.2	60.8	64.5	68.1	71.8	75.4	79.0	82.6
	29	22	18.4	26.1	29.9	33.7	37.6	41.4	45.3	49.2	53.0	56.8	60.6	64.5	68.3	72.2	76.0	79.9	83.7	87.6
	32	25	19.2	27.3	31.3	35.3	39.3	43.3	47.3	51.4	55.4	59.5	63.5	67.5	71.5	75.5	79.5	83.6	87.5	91.5
	35	28	19.8	28.1	32.2	36.4	40.5	44.7	48.8	53.0	57.1	61.3	65.4	69.6	73.7	77.9	82.0	86.2	90.3	94.4
	38	31	20.3	28.8	33.0	37.2	41.4	45.7	49.9	54.2	58.4	62.7	66.9	71.2	75.3	79.6	83.8	88.1	92.3	96.6
STACK HEIGHT INCHES	42	35	20.7	29.4	33.7	38.1	42.4	46.8	51.1	55.4	59.7	64.1	68.4	72.7	77.0	81.4	85.7	90.1	94.4	98.7
	47	40	21.1	30.0	34.4	38.9	43.3	47.7	52.2	56.6	61.0	65.5	69.9	74.4	78.7	83.2	87.6	92.0	96.4	100.9
	52	45	21.5	30.6	35.1	39.6	44.1	48.6	53.1	57.6	62.2	66.7	71.2	75.7	80.2	84.7	89.2	93.7	98.2	102.7
	57	50	21.9	31.0	35.6	40.2	44.8	49.3	53.9	58.5	63.1	67.7	72.2	76.8	81.4	86.0	90.6	95.2	99.7	104.3

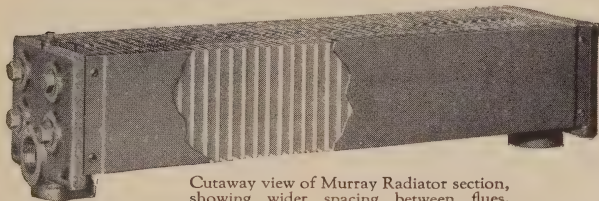
Above ratings based on front outlet enclosures. For top outlet rating see table on page 28.

Standard Enclosure Heights are Stack Height Plus 7"

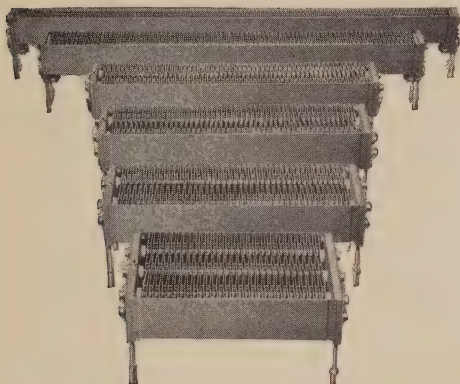
*To determine size of radiator divide total heat loss in B.t.u. by 240 for steam at 215°, or by 150 B.t.u. for water at 175°. For other water temperatures see page 38.

AMERICAN RADIATORS

NEW MURRAY RADIATORS



Cutaway view of Murray Radiator section, showing wider spacing between flues.

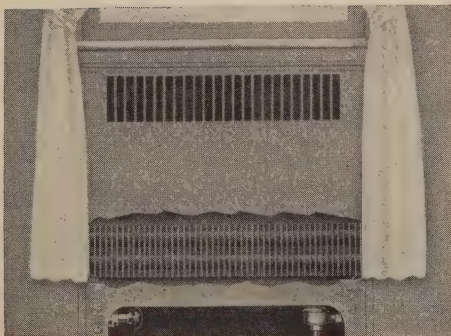


In the field of non-ferrous type radiation, the New Murray Radiator has achieved outstanding success. Years of designing and testing in our laboratories has placed it on a high level of service in point of efficient and hygienic operation.

The New Murray Radiator is made in six widths — No. 2, $2\frac{3}{8}$ " wide; No. 3, $3\frac{3}{4}$ " wide; No. 5, 5" wide; No. 6, $6\frac{3}{8}$ " wide; No. 7, $7\frac{3}{4}$ " wide; and No. 10, $10\frac{3}{8}$ " wide.

It is equally well adapted for one or two pipe steam, vapor or hot water systems and, when installed with Arco Enclosures, combines high heating efficiency with attractive appearance.

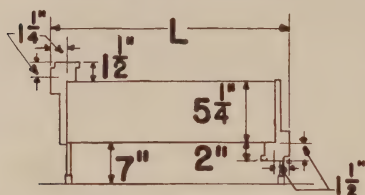
Arco Enclosures are made specially for New Murray Radiators, and are correctly designed and proportioned to assure easy installation and utmost efficiency of the Radiators. See Arco Enclosure catalog for complete data.



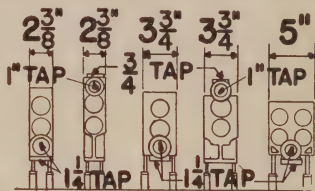
AMERICAN RADIATORS

NEW MURRAY RADIATOR DIMENSIONS AND ASSEMBLAGES

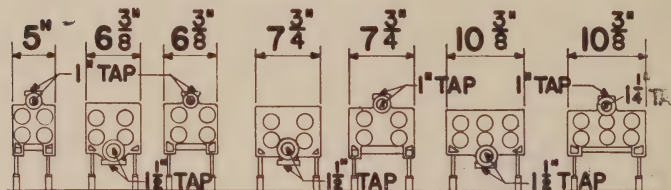
TYPICAL RADIATOR ELEVATION



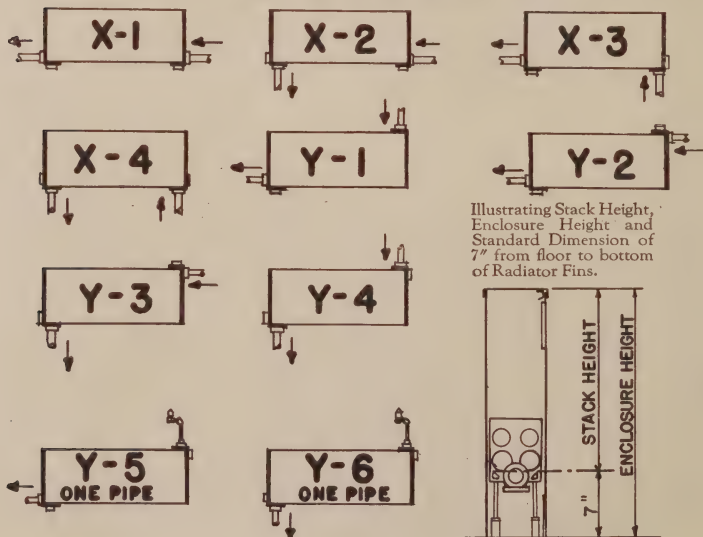
END VIEWS—SIX AVAILABLE WIDTHS



END VIEWS—SIX AVAILABLE WIDTHS



PIPING CONNECTIONS



AMERICAN RADIATORS

NEW MURRAY STEAM AND WATER RADIATOR RATINGS

*Output in Sq. Ft. Equivalent Direct Radiation

Radiator No. 2 (2 $\frac{3}{8}$ " Wide)

Radiator No. 3 (3 $\frac{3}{4}$ " Wide)

Length in Inches	ENCLOSURE HEIGHT																STACK HEIGHT INCHES															
	12½	15	17½	20	22½	25	27½	30	32½	35	37½	40	42½	45	47½	50	52½	55	57½	60												
18	11	5.9	7.2	8.5	9.9	11.2	12.5	13.9	15.2	16.5	17.8	19.2	20.5	21.8	23.1	24.4	25.7	27.1	28.4	29.7	31.0											
20	13	6.1	7.5	8.8	10.2	11.6	13.0	14.3	15.7	17.1	18.4	19.8	21.1	22.5	23.8	25.2	26.5	27.9	29.3	30.6	31.9											
22	15	6.3	7.7	9.1	10.5	11.9	13.3	14.7	16.2	17.6	18.9	20.3	21.7	23.1	24.4	25.9	27.3	28.7	30.0	31.4	32.8											
24	17	6.4	7.8	9.3	10.7	12.2	13.6	15.1	16.5	18.0	19.4	20.8	22.2	23.7	25.1	26.5	27.9	29.4	30.8	32.2	33.6											
26	19	6.6	8.0	9.5	11.0	12.4	13.9	15.4	16.8	18.3	19.7	21.2	22.7	24.2	25.6	27.1	28.5	30.0	31.5	33.0	34.4											
28	21	6.8	8.3	9.8	11.3	12.8	14.3	15.8	17.3	18.8	20.2	21.8	23.3	24.8	26.3	27.8	29.3	30.9	32.4	33.9	35.3											
30	23	7.0	8.5	10.0	11.5	13.0	14.5	16.0	17.5	19.0	20.5	22.0	23.5	25.0	26.5	28.0	29.5	31.0	32.5	34.0	35.3											
32	25	7.1	8.6	10.1	11.6	13.1	14.6	16.1	17.6	19.1	20.6	22.1	23.6	25.1	26.6	28.1	29.6	31.1	32.6	34.1	35.7											
34	27	7.2	8.7	10.2	11.7	13.2	14.7	16.2	17.7	19.2	20.7	22.2	23.7	25.2	26.7	28.2	29.7	31.2	32.7	34.2	35.7											
36	29	7.3	8.9	10.5	12.1	13.7	15.3	16.9	18.5	20.1	21.7	23.3	24.9	26.5	28.1	29.7	31.3	32.9	34.5	36.1	37.6											
38	31	7.4	9.1	10.7	12.4	14.0	15.6	17.3	18.9	20.6	22.2	23.9	25.5	27.2	28.8	30.5	32.1	33.8	35.4	37.1	38.7											
40	33	7.4	9.2	10.9	12.6	14.3	16.0	17.6	19.3	21.0	22.7	24.4	26.0	27.7	29.4	31.1	32.7	34.4	36.1	37.8	39.4											
42	35	7.5	9.3	11.1	12.9	14.7	16.5	18.3	20.1	21.9	23.7	25.5	27.3	29.1	30.9	32.7	34.5	36.3	38.1	39.8	41.4											
44	37	7.5	9.4	11.2	13.1	15.0	16.9	18.8	20.7	22.6	24.5	26.4	28.3	30.2	32.1	34.0	35.9	37.8	39.7	41.6	43.4											
46	39	7.5	9.5	11.4	13.4	15.4	17.4	19.4	21.4	23.4	25.4	27.4	29.4	31.4	33.4	35.4	37.4	39.4	41.4	43.4	45.4											
48	41	7.5	9.6	11.6	13.6	15.6	17.6	19.6	21.6	23.6	25.6	27.6	29.6	31.6	33.6	35.6	37.6	39.6	41.6	43.6	45.6											
50	43	7.5	9.7	11.7	13.8	15.8	17.8	19.8	21.8	23.8	25.8	27.8	29.8	31.8	33.8	35.8	37.8	39.8	41.8	43.8	45.8											
52	45	7.5	9.9	11.9	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0	36.0	38.0	40.0	42.0	44.0	46.0											
54	47	7.5	10.1	12.2	14.3	16.4	18.5	20.6	22.7	24.8	26.9	29.0	31.1	33.2	35.3	37.4	39.5	41.6	43.7	45.8	47.9											
56	49	7.5	10.3	12.5	14.7	16.9	19.1	21.3	23.5	25.7	27.9	30.1	32.3	34.5	36.7	38.9	41.1	43.3	45.5	47.7	49.9											
58	51	7.5	10.5	12.8	15.1	17.4	19.7	22.0	24.3	26.6	28.9	31.2	33.5	35.8	38.1	40.4	42.7	45.0	47.3	49.6	51.8											
60	53	7.5	10.7	13.1	15.5	17.9	20.3	22.7	25.1	27.5	29.9	32.3	34.7	37.1	39.5	41.9	44.3	46.7	49.1	51.5	53.8											
62	55	7.5	10.9	13.4	15.9	18.4	20.9	23.4	25.9	28.4	30.9	33.4	35.9	38.4	40.9	43.4	45.9	48.4	50.9	53.4	55.8											
64	57	7.5	11.1	13.7	16.3	18.9	21.5	24.1	26.7	29.3	31.9	34.5	37.1	39.7	42.3	44.9	47.5	50.1	52.7	55.3	57.8											
66	59	7.5	11.3	14.0	16.7	19.5	22.3	25.1	27.9	30.7	33.5	36.3	39.1	41.9	44.7	47.5	50.3	53.1	55.9	58.7	61.4											
68	61	7.5	11.5	14.3	17.1	20.0	22.9	25.8	28.7	31.6	34.5	37.4	40.3	43.2	46.1	49.0	51.9	54.8	57.7	60.6	63.4											
70	63	7.5	11.7	14.6	17.5	20.5	23.5	26.5	29.5	32.5	35.5	38.5	41.5	44.5	47.5	50.5	53.5	56.5	59.5	62.5	65.4											
72	65	7.5	11.9	14.9	17.9	21.0	24.1	27.2	30.3	33.4	36.5	39.6	42.7	45.8	48.9	52.0	55.1	58.2	61.3	64.3	67.3											
74	67	7.5	12.1	15.2	18.3	21.5	24.7	27.9	31.1	34.3	37.5	40.7	43.9	47.1	50.3	53.5	56.7	59.9	63.1	66.3	69.4											
76	69	7.5	12.3	15.5	18.7	22.0	25.3	28.6	31.9	35.2	38.5	41.8	45.1	48.4	51.7	55.0	58.3	61.6	64.9	68.2	71.4											
78	71	7.5	12.5	15.8	19.0	22.3	25.7	29.1	32.5	35.9	39.3	42.7	46.1	49.5	52.9	56.3	59.7	63.1	66.5	69.9	73.2											
80	73	7.5	12.7	16.1	19.3	22.7	26.1	29.5	32.9	36.3	39.7	43.1	46.5	49.9	53.3	56.7	60.1	63.5	66.9	70.3	73.6											
82	75	7.5	12.9	16.4	19.6	23.0	26.5	30.0	33.5	37.0	40.5	44.0	47.5	51.0	54.5	58.0	61.5	65.0	68.5	72.0	75.4											
84	77	7.5	13.1	16.7	19.9	23.3	26.8	30.3	33.8	37.3	40.8	44.3	47.8	51.3	54.8	58.3	61.8	65.3	68.8	72.3	75.7											
86	79	7.5	13.3	17.0	20.2	23.6	27.1	30.6	34.1	37.6	41.1	44.6	48.1	51.6	55.1	58.6	62.1	65.6	69.1	72.6	76.0											
88	81	7.5	13.5	17.3	20.5	23.9	27.4	30.9	34.4	37.9	41.4	44.9	48.4	51.9	55.4	58.9	62.4	65.9	69.4	72.9	76.3											
90	83	7.5	13.7	17.6	20.8	24.2	27.7	31.2	34.7	38.2	41.7	45.2	48.7	52.2	55.7	59.2	62.7	66.2	69.7	73.2	76.6											
92	85	7.5	13.9	17.9	21.1	24.5	28.0	31.5	35.0	38.5	42.0	45.5	49.0	52.5	56.0	59.5	63.0	66.5	70.0	73.5	76.9											
94	87	7.5	14.1	18.2	21.4	24.8	28.3	31.8	35.3	38.8	42.3	45.8	49.3	52.8	56.3	59.8	63.3	66.8	70.3	73.8	77.2											
96	89	7.5	14.3	18.5	21.7	25.1	28.6	32.1	35.6	39.1	42.6	46.1	49.6	53.1	56.6	60.1	63.6	67.1	70.6	74.1	77.5											
98	91	7.5	14.5	18.8	22.0	25.4	28.9	32.4	35.9	39.4	42.9	46.4	49.9	53.4	56.9	60.4	63.9	67.4	70.9	74.4	77.8											
100	93	7.5	14.7	19.1	22.3	25.7	29.2	32.7	36.2	39.7	43.2	46.7	50.2	53.7	57.2	60.7	64.2	67.7	71.2	74.7	78.1											
102	95	7.5	14.9	19.4	22.6	26.0	29.5	33.0	36.5	40.0	43.5	47.0	50.5	54.0	57.5	61.0	64.5	68.0	71.5	75.0	78.4											
104	97	7.5	15.1	19.7	22.9	26.3	29.8	33.3	36.8	40.3	43.8	47.3	50.8	54.3	57.8	61.3	64.8	68.3	71.8	75.3	78.7											
106	99	7.5	15.3	20.0	23.2	26.6	30.1	33.6	37.1	40.6	44.1	47.6	51.1	54.6	58.1	61.6	65.1	68.6	72.1	75.6	79.0											
108	101	7.5	15.5	20.3	23.5	26.9	30.4	33.9	37.4	40.9	44.4	47.9	51.4	54.9	58.4	61.9	65.4	68.9	72.4	75.9	79.3											
110	103	7.5	15.7	20.6	23.8	27.2	30.7	34.2	37.7	41.2	44.7	48.2	51.7	55.2	58.7	62.2	65.7	69.2	72.7	76.2	79.6											
112	105	7.5	15.9	20.9	24.1	27.5	31.0	34.5	38.0	41.5	45.0	48.5	52.0	55.5	59.0	62.5	66.0	69.5	73.0	76.5	79.9											
114	107	7.5	16.1	21.2	24.4	27.8	31.3	34.8	38.3	41.8	45.3	48.8	52.3	55.8	59.3	62.8	66.3	69.8	73.3	76.8	80.2											
116	109	7.5	16.3	21.5	24.7	28.1	31.6	35.1	38.6	42.1	45.6	49.1	52.6	56.1	59.6	63.1	66.6	70.1	73.6	77.1	80.5											
118	111	7.5	16.5	21.8	25.0	28.4	31.9	35.4	38.9	42.4	45.9	49.4	52.9	56.4	59.9	63.4	66.9	70.4	73.9	77.4	80.8											
120	113	7.5	16.7	22.1	25.3	28.7	32.2	35.7	39.2	42.7	46.2	49.7	53.2	56.7	60.2	63.7	67.2	70.7	74.2	77.7	81.1											
122	115	7.5	16.9	22.4	25.6	29.0	32.5	36.0	39.5	43.0	46.5	50.0	53.5	57.0	60.5	64.0	67.5	71.0	74.5	78.0	81.4											
124	117	7.5	17.1	22.7	25.9	29.3	32.8	36.3	39.8	43.3	46.8	50.3	53.8	57.3	60.8	64.3	67.8	71.3	74.8	78.3	81.7											
126	119	7.5	17.3	23.0	26.2	29.6	33.1	36.6	40.1	43.6	47.1	50.6	54.1	57.6	61.1	64.6	68.1	71.6	75.1	78.6	82.0											
128	121	7.5	17.5	23.3	26.5	29.9	33.4	36.9	40.4	43.9	47.4	50.9	54.4	57.9	61.4	64.9	68.4	71.9	75.4	78.9	82.3											
130	123	7.5	17.7	23.6	26.8	30.2	33.7	37.2	40.7	44.2	47.7	51.2	54.7	58.2	61.7	65.2	68.7	72.2	75.7	79.2	82.6											
132	125	7.5	17.9	23.9	27.1	30.5	34.0	37.5	41.0	44.5	48.0	51.5	55.0	58.5	62.0	65.5	69.0	72.5	76.0	79.5	82.9											
134	127	7.5	18.1	24.2	27.4	30.8	34.3	37.8	41.3	44.8	48.3	51.8	55.3	58.8	62.3	65.8	69.3	72.8	76.3	79.8	83.2											
136	129	7.5	18.3	24.5	27.7	31.1	34.6	38.1	41.6	45.1	48.6	52.1	55.6	59.1	62.6	66.1	69.6	73.1	76.6	80.1	83.5											
138	131	7.5	18.5	24.8	28.0	31.4	34.9	38.4	41.9	45.4	48.9	52.4	55.9	59.4	62.9	66.4	69.9	73.4	76.9	80.4	83.8											
140	133	7.5	18.7	25.1	28.3	31.7	35.2	38.7	42.2	45.7	49.2	52.7	56.2	59.7	63.2	66.7	70.2															

Standard Enclosure Heights are Stack Height Plus 7"

*To determine size of radiator divide total heat loss in B.t.u. by 240 for steam at 215°, or by 150 B.t.u. for water at 175°. For other water temperatures see page 38.

AMERICAN RADIATORS

NEW MURRAY STEAM AND WATER RADIATOR RATINGS

*Output in Sq. Ft. Equivalent Direct Radiation

Radiator No. 5 (5" Wide)

Radiator No. 6 (6 $\frac{3}{8}$ " Wide)

Length in Inches	Unit No.	12 $\frac{1}{2}$	15	17 $\frac{1}{2}$	20	22 $\frac{1}{2}$	25	27 $\frac{1}{2}$	30	32 $\frac{1}{2}$	35	37 $\frac{1}{2}$	40	42 $\frac{1}{2}$	45	47 $\frac{1}{2}$	50	52 $\frac{1}{2}$	55	57 $\frac{1}{2}$	60
		512	515	517	520	522	525	527	530	532	535	537	540	542	545	547	550	552	555	557	560
ENCLOSURE HEIGHT	18	11.0	13.5	16.0	18.5	21.0	23.4	26.0	28.4	30.9	33.4	36.0	38.5	41.1	43.6	46.1	48.5	51.0	53.5	56.0	58.5
	20	11.2	13.9	16.4	18.9	21.5	24.0	26.6	29.2	31.7	34.2	36.8	39.4	42.0	44.6	47.1	49.6	52.2	54.7	57.2	59.7
	22	11.4	14.1	16.7	19.4	22.1	24.5	27.2	29.7	32.4	35.0	37.7	40.3	42.9	45.4	48.0	50.6	53.2	55.8	58.4	61.0
	24	11.7	14.4	17.1	19.7	22.3	25.0	27.6	30.3	32.9	35.5	38.3	41.0	43.6	46.2	48.9	51.5	54.2	56.8	59.4	62.0
	26	11.9	14.6	17.3	20.0	22.7	25.4	28.2	30.8	33.5	36.2	38.9	41.6	44.3	47.0	49.7	52.4	55.1	57.8	60.5	63.1
	28	12.3	15.2	17.9	20.7	23.5	26.3	29.1	31.9	34.7	37.5	40.3	43.0	45.8	48.6	51.4	54.2	57.0	59.7	62.5	65.3
STACK HEIGHT	18	12.5	15.4	18.3	21.0	23.9	26.7	29.6	32.4	35.2	38.0	40.8	43.6	46.5	49.3	52.2	55.0	57.8	60.6	63.5	66.3
	20	12.8	15.6	18.5	21.4	24.2	27.1	29.9	32.8	35.7	38.5	41.4	44.2	47.1	50.0	52.9	55.8	58.7	61.5	64.4	67.2
	22	13.1	15.9	18.7	21.7	24.5	27.4	30.4	33.2	36.1	39.0	42.0	44.9	47.8	50.6	53.5	56.4	59.4	62.3	65.2	68.0
	24	13.4	16.1	19.0	22.0	24.9	27.8	30.8	33.6	36.7	39.6	42.6	45.5	48.5	51.5	54.4	57.3	60.2	63.1	66.1	69.0
	26	13.6	16.4	19.2	22.2	25.4	28.4	31.4	34.5	37.6	40.6	43.6	46.5	49.5	52.5	55.5	58.6	61.7	64.7	67.7	70.7
	67	13.6	16.7	19.8	22.9	26.0	29.0	32.1	35.2	38.3	41.4	44.5	47.5	50.6	53.6	56.7	59.8	62.9	66.0	69.1	72.2

Length in Inches	Unit No.	12 $\frac{1}{2}$	15	17 $\frac{1}{2}$	20	22 $\frac{1}{2}$	25	27 $\frac{1}{2}$	30	32 $\frac{1}{2}$	35	37 $\frac{1}{2}$	40	42 $\frac{1}{2}$	45	47 $\frac{1}{2}$	50	52 $\frac{1}{2}$	55	57 $\frac{1}{2}$	60
		612	615	617	620	622	625	627	630	632	635	637	640	642	645	647	650	652	655	657	660
ENCLOSURE HEIGHT	18	11.3	16.3	19.3	22.4	25.5	28.5	31.6	34.7	37.7	40.7	43.7	46.7	49.8	52.8	55.9	59.0	62.0	65.0	68.1	71.1
	20	11.6	16.7	19.8	22.9	26.0	29.0	32.2	35.3	38.4	41.5	44.6	47.6	50.7	53.7	56.9	60.0	63.1	66.2	69.3	72.4
	22	11.9	17.1	20.1	23.3	26.4	29.6	32.7	35.8	39.0	42.1	45.3	48.4	51.6	54.7	57.9	61.0	64.2	67.3	70.5	73.5
	24	12.1	17.3	20.5	23.7	26.8	30.0	33.2	36.4	39.6	42.8	46.0	49.2	52.4	55.6	58.8	62.0	65.2	68.3	71.5	74.6
	26	12.4	17.5	20.7	24.0	27.2	30.5	33.7	37.0	40.2	43.4	46.7	49.9	53.1	56.3	59.6	62.8	66.1	69.3	72.5	75.7
	28	12.7	17.8	21.1	24.4	27.7	31.0	34.3	37.6	40.9	44.2	47.5	50.8	54.1	57.4	60.7	64.0	67.3	70.6	73.9	77.2
STACK HEIGHT	18	13.0	18.2	21.5	24.9	28.2	31.5	35.0	38.1	41.5	44.9	48.4	51.6	55.0	58.3	61.7	65.0	68.4	71.7	75.0	78.3
	20	13.3	18.4	21.8	25.2	28.6	32.0	35.3	38.8	42.2	45.5	49.0	52.4	55.8	59.2	62.6	65.9	69.3	72.7	76.1	79.4
	22	13.6	18.7	22.1	25.5	28.9	32.4	35.8	39.2	42.6	46.0	49.4	52.8	56.2	59.6	63.0	66.4	69.8	73.2	76.6	80.0
	24	13.9	19.0	22.4	25.8	29.2	32.6	36.0	39.4	42.8	46.2	49.6	53.0	56.4	59.8	63.2	66.6	70.0	73.4	76.8	80.2
	26	14.2	19.3	22.7	26.1	29.5	32.9	36.3	39.7	43.1	46.5	49.9	53.3	56.7	60.1	63.5	66.9	70.3	73.7	77.1	80.5
	67	14.5	19.6	23.0	26.4	29.8	33.2	36.6	40.0	43.4	46.8	50.2	53.6	57.0	60.4	63.8	67.2	70.6	74.0	77.4	80.8

Standard Enclosure Heights are Stack Height Plus 7"

*To determine size of radiator divide total heat loss in B.t.u. by 240 for steam at 215°, or by 150 B.t.u. for water at 175°. For other water temperatures see page 38.

AMERICAN RADIATORS

NEW MURRAY STEAM AND WATER RADIATOR RATINGS

*Output in Sq. Ft. Equivalent Direct Radiation

Radiator No. 7 ($7\frac{3}{4}$ " Wide) Radiator No. 10 ($10\frac{3}{8}$ " Wide)

Length in Inches	Radiator No. 7 ($7\frac{3}{4}$ " Wide)											Radiator No. 10 ($10\frac{3}{8}$ " Wide)										
	Unit No.	60	57½	55	52½	50	47½	45	42½	40	37½	35	32½	30	27½	25	22½	20	17½	15	12½	
ENCLOSURE HEIGHT	20	13	760	757	755	752	750	747	745	742	740	737	735	732	730	727	725	722	720	717	715	712
	22	15	814	779	744	709	674	640	605	571	536	501	466	432	397	362	327	293	257	222	188	153
	24	17	843	807	771	735	699	663	626	590	554	518	482	446	410	374	338	302	266	230	194	158
	26	19	855	818	781	745	708	672	635	599	562	526	490	454	417	381	344	307	271	234	198	162
STACK HEIGHT	22	25	871	834	796	758	721	683	645	607	570	532	494	456	418	380	342	304	266	228	190	152
	29	32	886	848	810	772	734	696	658	620	582	544	506	468	430	392	354	316	278	240	202	164
	35	38	900	862	824	786	748	710	672	634	596	558	520	482	444	406	368	330	292	254	216	178
	38	38	914	875	836	797	758	719	680	641	602	563	524	485	446	407	368	329	289	250	211	173
ENCLOSURE HEIGHT	42	42	930	890	850	811	771	731	691	652	612	573	533	493	453	413	374	334	295	255	216	176
	47	50	947	907	867	826	785	745	704	664	624	583	542	502	462	421	381	341	300	260	220	179
	57	57	977	935	893	851	809	767	725	683	641	600	558	516	474	432	390	348	306	264	222	180
	60	60	1000	960	920	874	828	781	734	686	644	602	560	518	477	435	393	351	310	268	226	185
ENCLOSURE HEIGHT	22	15	1060	1057	1055	1052	1050	1047	1045	1042	1040	1037	1035	1032	1030	1027	1025	1022	1020	1017	1015	1012
	24	17	1113	1069	1025	981	937	893	849	805	761	717	673	629	585	541	497	453	409	365	321	277
	26	19	1135	1087	1043	999	954	909	864	819	774	729	684	639	594	549	504	459	414	369	324	279
	29	22	1144	1096	1052	1008	964	919	874	829	784	739	694	649	604	559	514	469	424	379	334	289
STACK HEIGHT	32	25	1175	1128	1084	1040	996	952	908	864	820	776	732	688	644	600	556	512	468	424	380	336
	35	28	1188	1138	1094	1050	1006	962	918	874	830	786	742	698	654	610	566	522	478	434	390	346
	38	31	1196	1145	1101	1057	1013	969	925	881	837	793	749	705	661	617	573	529	485	441	397	353
	42	35	1200	1149	1105	1061	1017	973	929	885	841	797	753	709	665	621	577	533	489	445	401	357

Standard Enclosure Heights are Stack Height Plus 7"

*To determine size of radiator divide total heat loss in B.t.u. by 240 for steam at 215°, or by 150 B.t.u. for water at 175°. For other water temperatures see page 38.

AMERICAN RADIATORS

TABLE OF B.T.U. FACTORS FOR VARIOUS AVERAGE HOT WATER TEMPERATURES

ARCO CONVECTOR

The following table shows the average water temperature in the Arco Convector and also the output in B.t.u. per square foot equivalent direct radiation corresponding to the average water temperature. In using this table, the total heat loss in B.t.u.'s divided by the B.t.u. factor corresponding to the average water temperature will give the equivalent square feet required. The Arco Convector can then be selected directly from the rating tables on pages 31 and 32.

Specified Average Water Temperature in Arco Convector	B.t.u. Per Sq. Ft.
220 degrees.....	227 B.t.u.
210 degrees.....	208 B.t.u.
200 degrees.....	192 B.t.u.
190 degrees.....	175 B.t.u.
180 degrees.....	158 B.t.u.
175 degrees.....	150 B.t.u.
170 degrees.....	141 B.t.u.
160 degrees.....	125 B.t.u.
150 degrees.....	107 B.t.u.
140 degrees.....	91 B.t.u.
130 degrees.....	75 B.t.u.

NEW MURRAY RADIATOR

The following table shows the average water temperature in the New Murray Radiator and also the output in B.t.u. per square foot equivalent direct radiation corresponding to the average water temperature. In using this table, the total heat loss in B.t.u.'s divided by the B.t.u. factor corresponding to the average water temperature will give the equivalent square feet required. The New Murray Radiator can then be selected directly from the rating tables on pages 35 to 37.

Specified Average Water Temperature in New Murray Radiators	B.t.u. Per Sq. Ft.
220 degrees.....	227 B.t.u.
210 degrees.....	208 B.t.u.
200 degrees.....	192 B.t.u.
190 degrees.....	175 B.t.u.
180 degrees.....	158 B.t.u.
175 degrees.....	150 B.t.u.
170 degrees.....	141 B.t.u.
160 degrees.....	125 B.t.u.
150 degrees.....	107 B.t.u.
140 degrees.....	91 B.t.u.
130 degrees.....	75 B.t.u.

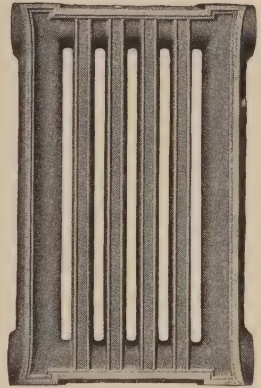
AMERICAN RADIATORS

PEERLESS WALL RADIATORS

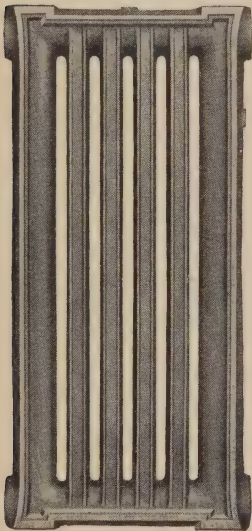
AMERICAN Peerless Wall Radiators are designed to give maximum heating results where radiation space is limited, as in factory work, shops, loft buildings, store-houses, garages, lobbies, corridors, stairways, bath rooms, etc.

These radiators are made in five styles, with provisions for numerous groupings; and may be assembled to meet any structural condition, fitting into restricted spaces of practically any size or shape, under windows or between them, on walls, ceilings or in sky-lights.

Right- and left-hand threaded hexagon nipples made of malleable iron are supplied for connecting banks of assembled radiators.



No. 7-B



No. 9-B

Peerless Wall Radiators should always be assembled with bars vertical to secure greatest heating efficiency. The 7- and 9-foot Sections are, therefore, made in two styles: Nos. 7-A and 9-A have bars running cross-wise of the Section and are regularly tapped for connecting end to end. Nos. 7-B and 9-B have bars running lengthwise of the Section and are regularly tapped for connecting side by side.

No. 5-A is made with bars running cross-wise of the Section only and is regularly tapped for connecting end to end.

On special order, the No. 5-A, 7-A and 9-A Sections can be furnished with tappings at 30, 40, 70, and 80 as illustrated on page 40.

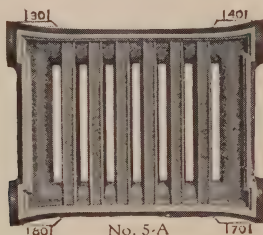
For Ratings and Measurements of Sections and Assemblages see pages 40, 41 and 43.

For Methods of Assembling, see pages 40 to 49 inclusive.

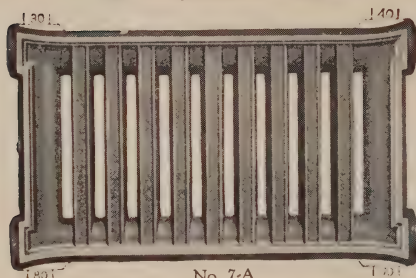
For Tappings, Connections, Directions for Ordering, and Shipping Conditions, see page 42.

AMERICAN RADIATORS

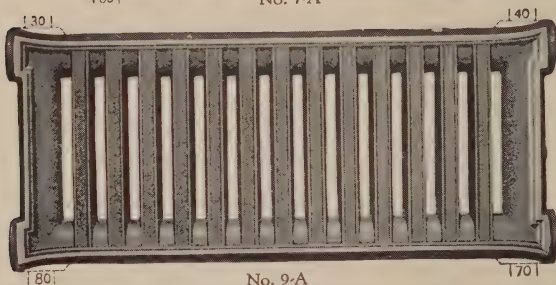
PEERLESS WALL RADIATORS



No. 5-A



No. 7-A



No. 9-A

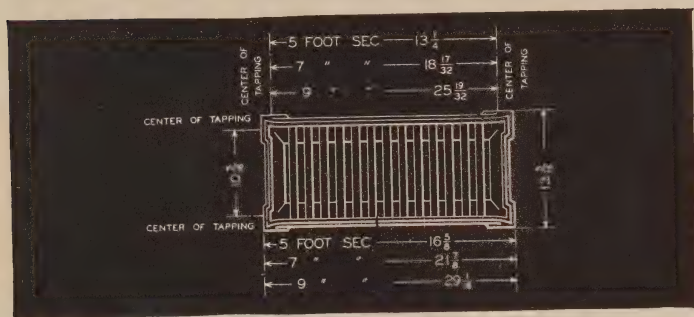
RATING AND MEASUREMENT OF SECTIONS

Number of Sections	Height Inches	Length or Width Inches	Thickness Inches	Thickness (with bracket) Inches	Heating Surface Square Feet
5-A	$13\frac{5}{16}$	$16\frac{5}{8}$	$2\frac{7}{8}$	$3\frac{1}{2}$	5
7-A	$13\frac{5}{16}$	$21\frac{7}{8}$	$2\frac{7}{8}$	$3\frac{1}{2}$	7
7-B	$21\frac{7}{8}$	$13\frac{5}{16}$	$3\frac{1}{16}$	$3\frac{11}{16}$	7
9-A	$13\frac{5}{16}$	$29\frac{1}{16}$	$2\frac{7}{8}$	$3\frac{1}{2}$	9
9-B	$29\frac{1}{16}$	$13\frac{5}{16}$	$3\frac{1}{16}$	$3\frac{11}{16}$	9

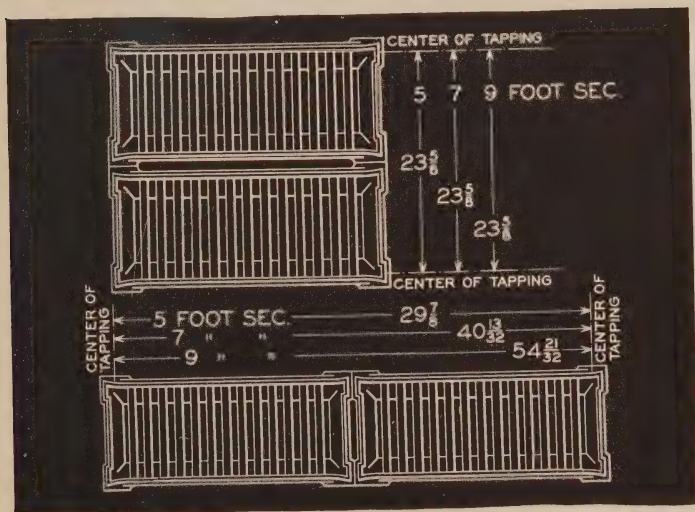
AMERICAN RADIATORS

PEERLESS WALL RADIATORS

MEASUREMENTS



Above measurements apply to either "A" or "B" styles



Note.—The regular tappings of American Wall Radiators as shown on the following pages are indicated by Nos. 2, 3, 4, 5, 6, 7, 8 and 9. Nos. 20, 30, 40, 50, 60, 70, 80 and 90 indicate special tappings which can be furnished if desired and for which an extra charge will be made. Tappings are $1\frac{1}{2}$ inches, supply and return, and bushed as desired. Add $1\frac{1}{8}$ inches to length measurement for each hexagonal nipple used in assembling. See also "Directions for Ordering," page 42. For heating surface and length of space occupied, see page 43.

AMERICAN RADIATORS

DIRECTIONS FOR ORDERING

Where higher working pressures (steam or water) than 15 pounds for steam or 30 pounds for water are required, order must specifically so state. In these cases wall radiators are furnished only with outside hexagon nipples.

For convenience in handling and shipping unless otherwise ordered, No. 5-A Radiators will be assembled in stacks not exceeding 6 sections; No. 7-A Radiators in stacks not exceeding 4 sections; No. 9-A Radiators in stacks not exceeding 3 sections; and Nos. 7-B and 9-B Radiators in stacks not exceeding 7 sections.

When fitter intends to erect a stack consisting of more sections than above mentioned, or when the sections or stacks are to be set in rows or series (as shown by illustrations on pages 44 to 49), we provide a right- and left-hand threaded nipple *having hexagon nut at center*, enabling the fitter to easily connect the stacks or rows on the job.

Peerless Wall Radiation is tapped 1½-inch supply and return and bushed as desired. It is connected with 1½-inch right- and left-hand threaded internal nipples. These nipples have two heavy inside lugs so that an ordinary piece of 1-inch round iron flattened at one end the length of nipple, can be inserted to any desired point in the Radiator, and by applying an ordinary wrench to bar, the nipple can be screwed or unscrewed and one or more sections may be added or taken out independently of all the others in the stack. We can furnish these bars (Direct Radiator Wrenches) in sizes as noted on page 12.

Orders should refer to figure number showing assemblage (see pages 44 to 49). The figures shown on these pages illustrate the common ways of assembling comparatively small units, but wall radiators can be assembled in any number of sections, either longer or higher, than shown in the figures. It is our practice, however, when a greater number of sections of a given figure than exactly shown in the figure, are specified, to always build onto the length, maintaining the height as shown in the figure. The safe way in ordering is always to send sketch unless you are ordering exactly the number of sections as shown in the figure.

AMERICAN RADIATORS

TABLE SHOWING LENGTH OF SPACE OCCUPIED—AND HEATING SURFACE FOR VARIOUS SIZES AND ASSEMBLAGES OF PEERLESS WALL RADIATORS

Number of Sections	Length of Space Occupied				Heating Surface, Square Feet		
	Type 5-A Feet Inches	Type 7-A Feet Inches	Type 9-A Feet Inches	Types 7-B, 9-B Feet Inches	Type 5	Type 7	Type 9
1	1-4 ⁵ / ₈	1-9 ⁷ / ₈	2-5 ¹ / ₁₆	1-1 ⁵ / ₁₆	5	7	9
2	2-9 ¹ / ₄	3-7 ³ / ₄	4-10 ¹ / ₈	2-2 ⁵ / ₈	10	14	18
3	4-1 ⁷ / ₈	5-5 ⁵ / ₈	7-3 ³ / ₁₆	3-3 ¹⁵ / ₁₆	15	21	27
4	5-6 ¹ / ₂	7-3 ¹ / ₂	9-8 ¹ / ₄	4-5 ¹ / ₄	20	28	36
5	6-11 ¹ / ₈	9-1 ³ / ₈	12-1 ⁵ / ₁₆	5-6 ⁹ / ₁₆	25	35	45
6	8-3 ³ / ₄	10-11 ¹ / ₄	14-6 ³ / ₈	6-7 ⁷ / ₈	30	42	54
7	9-8 ³ / ₈	12-9 ¹ / ₈	16-11 ⁷ / ₁₆	7-9 ³ / ₁₆	35	49	63
8	11-1	14-7	19-4 ¹ / ₂	8-10 ¹ / ₂	40	56	72
9	12-5 ⁵ / ₈	16-4 ⁷ / ₈	21-9 ⁹ / ₁₆	9-11 ¹³ / ₁₆	45	63	81
10	13-10 ¹ / ₄	18-2 ³ / ₄	24-2 ⁵ / ₈	11-1 ¹ / ₈	50	70	90
11	15-2 ⁷ / ₈	20-0 ⁵ / ₈	26-7 ¹¹ / ₁₆	12-2 ⁷ / ₁₆	55	77	99
12	16-7 ¹ / ₂	21-10 ¹ / ₂	29-0 ³ / ₄	13-3 ³ / ₄	60	84	108
13	18-0 ¹ / ₈	23-8 ³ / ₈	31-5 ¹³ / ₁₆	14-5 ¹ / ₁₆	65	91	117
14	19-4 ³ / ₄	25-6 ¹ / ₄	33-10 ⁷ / ₈	15-6 ³ / ₈	70	98	126
15	20-9 ³ / ₈	27-4 ¹ / ₈	36-3 ¹⁵ / ₁₆	16-7 ¹¹ / ₁₆	75	105	135
16	22-2	29-2	38-9	17-9	80	112	144
17	23-6 ⁵ / ₈	30-11 ⁷ / ₈	41-2 ¹ / ₁₆	18-10 ⁵ / ₁₆	85	119	153
18	24-11 ¹ / ₄	32-9 ³ / ₄	43-7 ¹ / ₈	19-11 ⁹ / ₁₆	90	126	162
19	26-3 ⁷ / ₈	34-7 ⁵ / ₈	46-0 ³ / ₁₆	21-0 ¹⁵ / ₁₆	95	133	171
20	27-8 ¹ / ₂	36-5 ¹ / ₂	48-5 ¹ / ₄	22-2 ¹ / ₄	100	140	180
21	29-1 ¹ / ₈	38-3 ³ / ₈	50-10 ⁵ / ₁₆	23-3 ⁹ / ₁₆	105	147	189
22	30-5 ³ / ₄	40-1 ¹ / ₄	53-3 ³ / ₈	24-4 ⁷ / ₈	110	154	198
23	31-10 ³ / ₈	41-11 ¹ / ₈	55-8 ⁷ / ₁₆	25-6 ³ / ₁₆	115	161	207
24	33-3	43-9	58-1 ¹ / ₂	26-7 ¹ / ₂	120	168	216
25	34-7 ⁵ / ₈	45-6 ⁷ / ₈	60-6 ⁹ / ₁₆	27-8 ¹³ / ₁₆	125	175	225
26	36-0 ¹ / ₄	47-4 ³ / ₄	62-11 ⁵ / ₈	28-10 ¹ / ₈	130	182	234

To these lengths add 1/2 inch for each end bushed and 1 1/8 inches for each Hexagon Nipple used in assembling.

AMERICAN RADIATORS

PEERLESS WALL RADIATORS

KEY TO FIGURE NUMBERING

The first numeral in each of the following Figure Numbers indicates the size of section, thus:—Figure 517 means 5 foot sections arranged in the manner as shown in sketch above the number; Figure 717 refers to 7 foot sections and to the same assemblage, and Figure 917 refers to 9 foot sections and to the same assemblage.

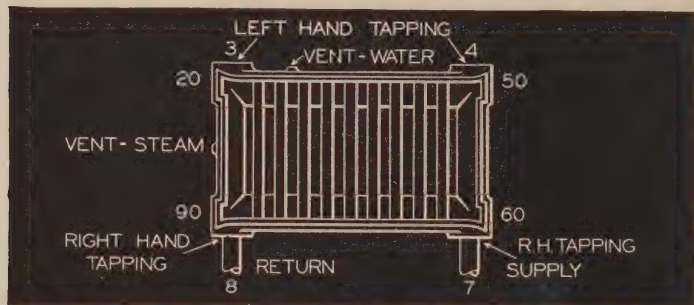


FIGURE 51, 71, or 91
Water and One- and Two-Pipe Steam

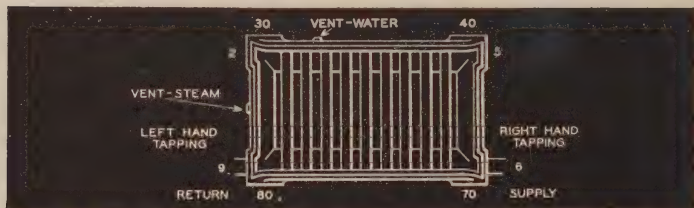


FIGURE 57, 77, or 97
Water and One- and Two-Pipe Steam

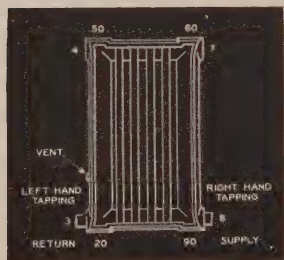


FIGURE 74 OR 94
One- and Two-Pipe Steam

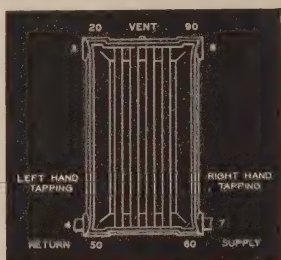


FIGURE 78 OR 98
Water

AMERICAN RADIATORS

PEERLESS WALL RADIATORS

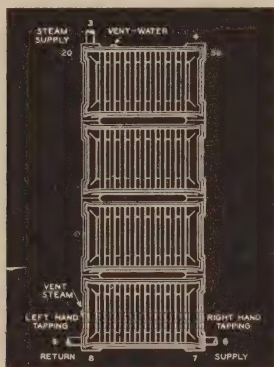


FIGURE 515, 715, or 915
Assembled Four Sections in
Four Tiers—Water and Two-
Pipe Steam

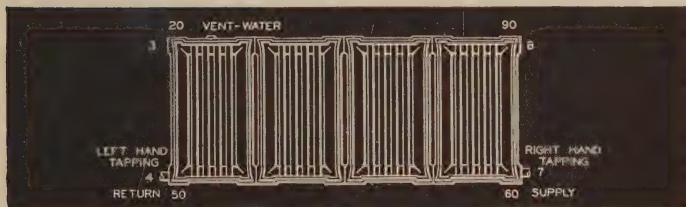


FIGURE 717 OR 917
Assembled Four Sections in Single Tier—Water

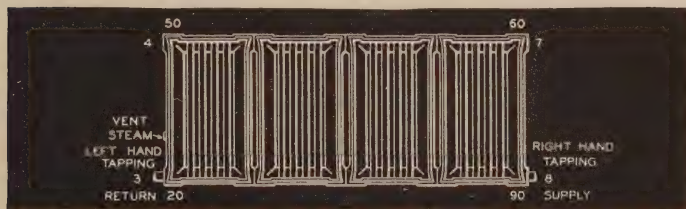


FIGURE 718 OR 918
Sections in Single Tier—One- and Two-Pipe Steam

See note on Tappings, page 42. Also see pages 41 and 43.

AMERICAN RADIATORS

PEERLESS WALL RADIATORS

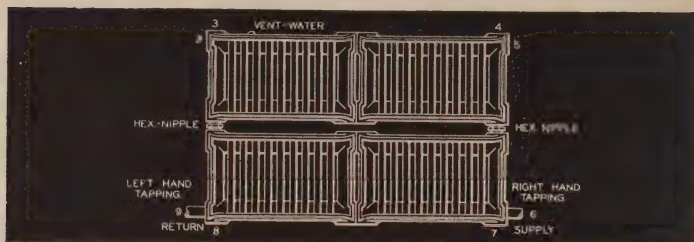


FIGURE 521, 721, or 921
Assembled Four Sections in Two Tiers—Water

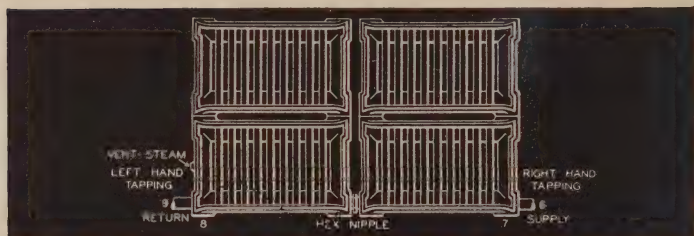


FIGURE 522, 722, or 922
Assembled Four Sections in Two Tiers—One- and Two-Pipe Steam



FIGURE 511, 711, or 911. Assembled Three Sections in Single Tier—Water and One- and Two-Pipe Steam

See note on Tappings, page 42. Also see pages 41 and 43:

AMERICAN RADIATORS

PEERLESS WALL RADIATORS

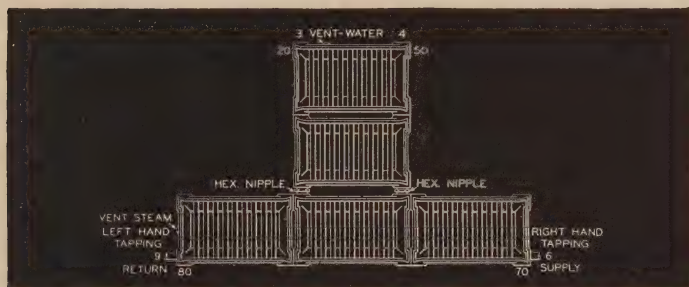


FIGURE 523, 723, or 923

Assembled Three and Two Sections with Three Tiers—Water and One- and Two-Pipe Steam

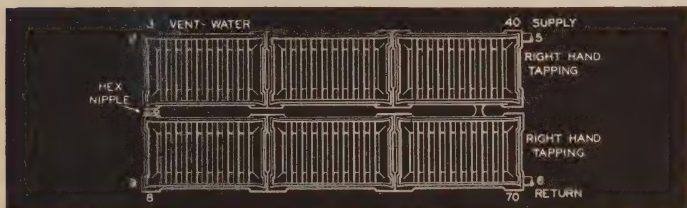


FIGURE 531, 731, or 931

Assembled Six Sections in Two Tiers—Water
Always indicate points at which tappings are required.

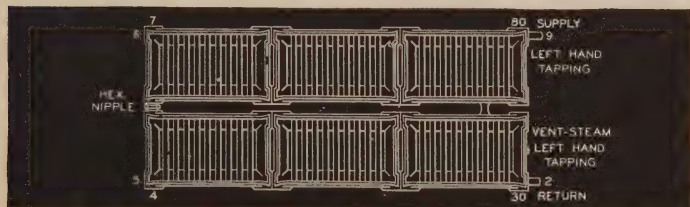


FIGURE 532, 732, or 932

Assembled Six Sections in Two Tiers—Two-Pipe Steam.

Always indicate points at which tappings are required.

See note on Tappings, page 42. Also see pages 41 and 43.

AMERICAN RADIATORS

PEERLESS WALL RADIATORS

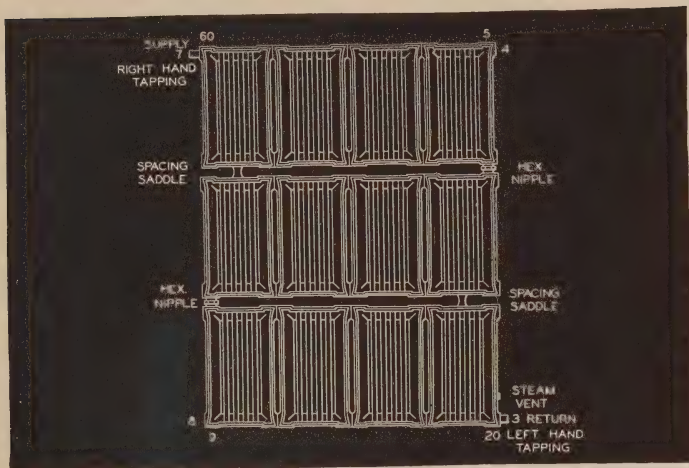
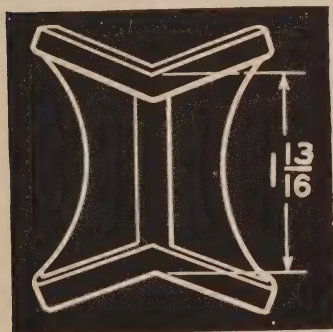


FIGURE 742 OR 942
Assembled in Twelve Sections in Three Tiers. Using Spacing Saddles
(see below)

Indicate points at which tappings are required.

See note on Tappings, page 42. Also see pages 41 and 43.



WALL RADIATOR
SPACING SADDLE

Furnished between sections in assemblages of Peerless Wall Radiators, similar to figure above. Saves using extra brackets. Furnished without charge.

AMERICAN RADIATORS

ARCO ADJUSTABLE WALL BRACKETS



Single spool bracket for
single row of radiation



Double spool bracket for
double row of radiation

MADE for all runs of wall radiators in factories, warehouses, theatres, railroad stations and other buildings, garages, schools, churches and residences.

By use of these brackets, which permit vertical adjustment of 2 inches, the fitter can adjust for "pitch" after they have been attached to the wall. The brackets set the outer face of the radiator $4\frac{3}{4}$ inches from the wall.

The spools on the bottom bracket allow a free horizontal movement of the radiators, thus taking care of any difference in "roughing-in" measurements, and afford free-play for expansion and contraction. The V-shape formed by the divided spool fits the edges of Peerless Wall sections, thus keeping them securely in place.

The malleable iron finger of the top bracket is set at its highest point and then screwed down to the radiator, merely guiding it and keeping it from tipping forward.

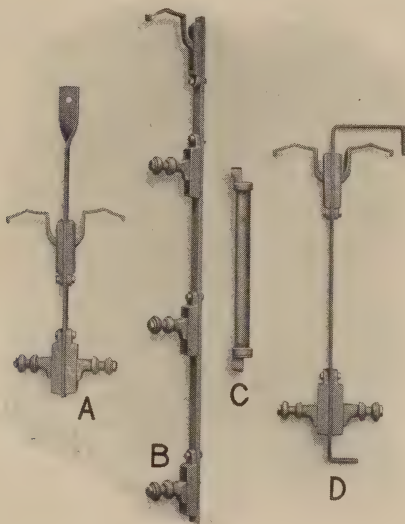
On SPECIAL ORDER we furnish the Arco Brackets with two spools (see above)—to carry two runs of radiation separated for "A" section about $1\frac{7}{16}$ inch, and for "B" section $1\frac{1}{4}$ inch.

For application of new Arco Adjustable Wall Brackets to Peerless Wall Radiators and for chart showing number and location of Brackets see following pages.

When ordering state whether for use with 5, 7, or 9 square foot sections and whether of "A" or "B" pattern, giving figure number of assemblage. See pages 42 to 49. See page 54 for detail measurements.

AMERICAN RADIATORS

ARCO ADJUSTABLE WALL BRACKETS



ASSEMBLAGES OF ARCO ADJUSTABLE WALL BRACKETS

FIGURE "A" shows a combination Arco Adjustable Support suspended from the ceiling, permitting the duplex arrangement of the wall pattern radiators.

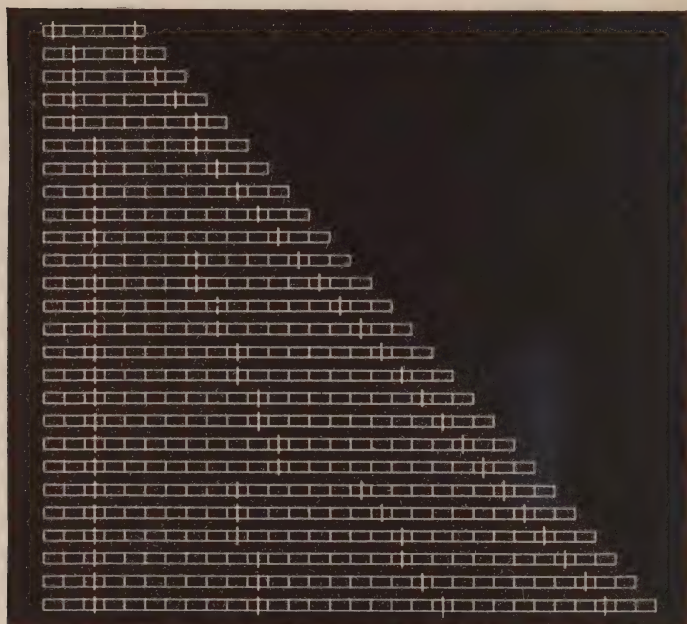
Figure "B" shows a multiple support used preferably with the "A" section, permitting a number of radiators to be supported one above another, the intermediate roll in each case serving the double purpose of carrying the weight of the section as well as guiding the top of the lower one.

Figure "C" shows a trapeze hanger which is used for supporting wall radiators which are hung flat and parallel to the ceiling. The end fittings are screwed into a 1-inch pipe or long nipple and the rods which extend at right angles pass through the fittings and permit a vertical adjustment.

Figure "D" shows a combination which may be used in place of the double spool support, the brackets being fastened to a bent bar and the latter bolted to the wall at the top and to the floor at the bottom.

AMERICAN RADIATORS

ARCO ADJUSTABLE WALL BRACKETS



FOR SINGLE ROW

Graphic chart to show by perpendicular lines how many and where to place New Arco Adjustable Wall Brackets upon Radiators of different assemblages, from 5 to 30 sections. (See page 54.)

FOR DOUBLE ROW OF RADIATION

The following table gives the number of double spool Arco adjustable brackets required to support properly two rows of "B" Sections Peerless Wall Radiators:

Number of Double Sections	Number of Brackets
5 to 8.....	2
9 to 14.....	3
15 to 24.....	5
25 to 32.....	7
33 to 45.....	8

See Measurements of Brackets, page 54.

AMERICAN RADIATORS

ARCO ADJUSTABLE WALL BRACKETS

BEARING PLATE DIMENSIONS

BEARING Plates are first fastened to the wall after which Arco Adjustable Wall Brackets are fastened to the Bearing Plates.

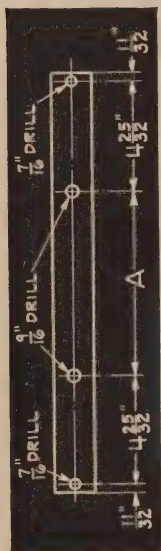
No. 1 Bearing Plate for 5-A, 7-A and 9-A Peerless Wall Radiators in assemblages not requiring split plates.

No. 2 Bearing Plate for 7-B Peerless Wall Radiators in assemblages not requiring split plates.

No. 3 Bearing Plate for 9-B Peerless Wall Radiators in assemblages not requiring split plates.

DIMENSION A

5 in. for No. 1 plate $20\frac{7}{8}$ in. for No. 3 plate
 $13\frac{3}{4}$ in. for No. 2 plate

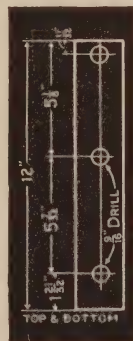


SPLIT BEARING PLATE

For 5-A, 7-A and 9-A and 7-B and 9-B Peerless Wall Radiators as used in Assemblage Figs. 515, 715, 915, 740, 940, 541, 741, 941, 742 and 942.

Note

Dimensions of Bearing Plates for double row assemblages will be supplied on application.



Split Bearing Plate
 Top and bottom plates are identical

AMERICAN RADIATORS

ARCO ADJUSTABLE WALL BRACKETS

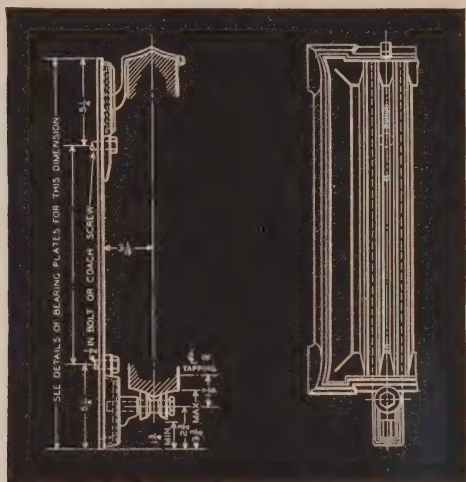


FIG. 1

FIG. 2

Figs. 1, 2 and 3 show construction details and measurements of Arco Adjustable Wall Brackets.

Fig. 1 illustrates Bracket for a single row of Peerless Wall Radiators.

Fig. 2 illustrates appearance of either Bracket when supporting Peerless Wall Radiators.

Fig. 3 illustrates Bracket for double row of Peerless Wall Radiators.

For Bearing Plate Dimensions see page 53.

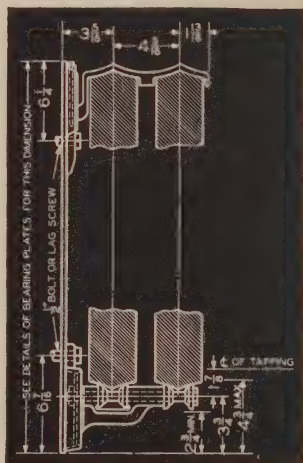
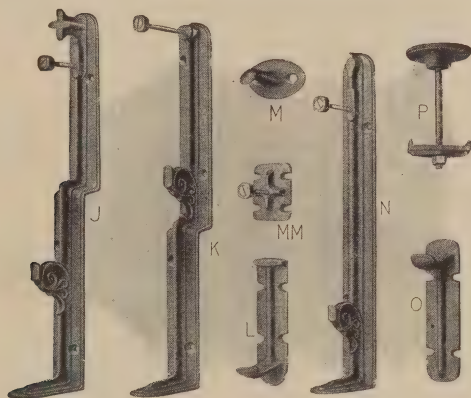


FIG. 3

AMERICAN RADIATORS

ARCO WALL AND CEILING BRACKETS



BRACKETS "J": To fit over a $9\frac{1}{2}$ -inch high baseboard or skirting, and for supporting Wall Radiators Nos. 7-B and 9-B. With each "J" Bracket we furnish one $\frac{1}{4}$ -inch stove bolt and one button.

Height from floor to center of lowest tapping (Supply or return):	
J-1 Bracket.....	$9\frac{1}{2}$ inches
J-2 Bracket.....	$7\frac{1}{2}$ inches
J-3 Bracket.....	$5\frac{1}{2}$ inches

BRACKETS "K": To fit over baseboard or skirting, and for supporting Wall Radiators Nos. 5-A, 7-A, and 9-A. With each "K" Bracket we furnish one $\frac{1}{4}$ -inch stove bolt and one button.

Height from floor to center of lowest tapping (Supply or return):	
K-1 Bracket will fit over $11\frac{1}{2}$ -inch high baseboard.....	16 inches
K-2 Bracket " " " $9\frac{1}{2}$ " " ".....	14 inches
K-3 Bracket " " " $7\frac{1}{2}$ " " ".....	12 inches
K-4 Bracket " " " $5\frac{1}{2}$ " " ".....	10 inches
K-5 Bracket " " " $3\frac{1}{2}$ " " ".....	8 inches
K-6 Bracket " " " $1\frac{1}{2}$ " " ".....	6 inches

BRACKETS "L," "O," "MM," and "M": Screwed to wall, baseboard or wainscoting. "L" and "O" Brackets are bottom supports for all sizes of Wall Radiators. "MM" and "M" Brackets are top guides to hold radiator in place. "L" and "MM" Brackets are concealed, "O" and "M" Brackets are not. One "MM" or "M" Bracket should always be provided for use with each "L" or "O" Bracket. "L," "O," and "MM" Brackets are slotted for four, and the "M" Bracket for two wood screws—not furnished by us. With each "MM" Bracket we furnish one $\frac{1}{4}$ -inch stove bolt and one button.

BRACKET "N": Is a straight right angle Bracket, without offset, for supporting all sizes of Wall Radiators; height from floor to center of end tapping bosses, $5\frac{1}{2}$ inches. With each "N" Bracket we furnish one $\frac{1}{4}$ -inch stove bolt and one button.

CEILING BRACKET "P": Made of cast plate, $3\frac{1}{2}$ inches diameter and screwed to ceiling joists by four screws—not furnished by us. The bolt furnished gives a distance of $3\frac{1}{2}$ inches to 5 inches from bottom of Radiator to ceiling. Other length bolts can be furnished on special order.

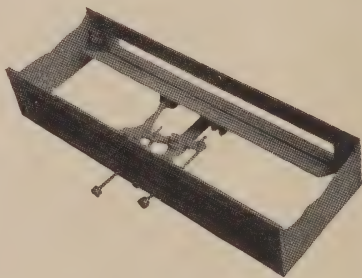
NOTE.—In ordering buttons and stove bolts separately, state for which bracket, because of different lengths of bolts.

AMERICAN RADIATORS

PORTABLE VENTILATING BOX-BASE

FOR VENTILATING RADIATORS

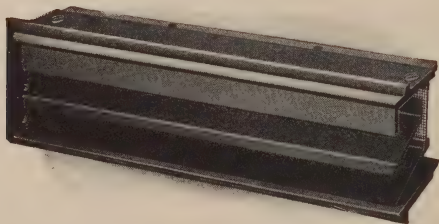
IN this interchangeable Base dampers work with reversible action. When front damper is open, back damper is closed, and vice versa. When front damper is open, air is taken from the room; when rear damper is open, air comes from outside. Furnished with opening and damper in back.



Front View—with Rear Wall Collar and Damper

Specify whether bases are desired with regular inlet collar in rear as above shown or for inlet to come through floor.

WALL BOXES



THESE are substantially constructed with heavy enamel finish and their angle slats and inside brass-wire screen render them storm and insect-proof. Made in two sizes.

LARGE BOX, exclusive of flange, 8x25 inches; including rib or flange, $8\frac{7}{8} \times 25\frac{1}{2}$ inches; depth of box from front flange to rear, 4 inches. Collar at the rear, $7\frac{7}{8} \times 24\frac{5}{8}$ inches.

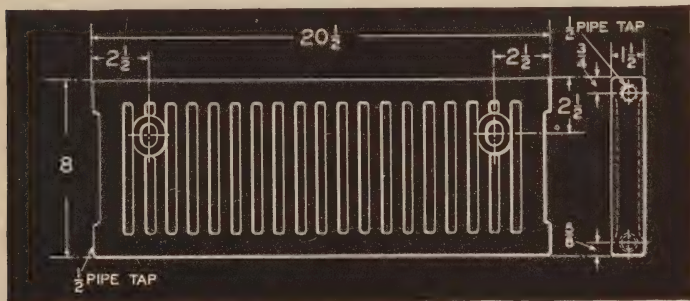
SMALL BOX, exclusive of flange, $5 \times 17\frac{1}{2}$ inches; including rib or flange, $5\frac{5}{8} \times 18$ inches; depth of box from front flange to rear, 4 inches. Collar at rear, $4\frac{7}{8} \times 17\frac{1}{8}$ inches.

AMERICAN RADIATORS

PEERLESS BATHROOM RADIATOR



THE Peerless Bathroom Radiator is designed especially for the warming of modern bathrooms, such as are found in hotels, apartments, etc. The space available for radiation in such rooms is so limited that the Peerless Bathroom Radiator fills a long felt need. This efficient radiator is easily fastened to the wall under the wash basin by simple lag screws or hooks. When harmoniously enameled its appearance is most pleasing.

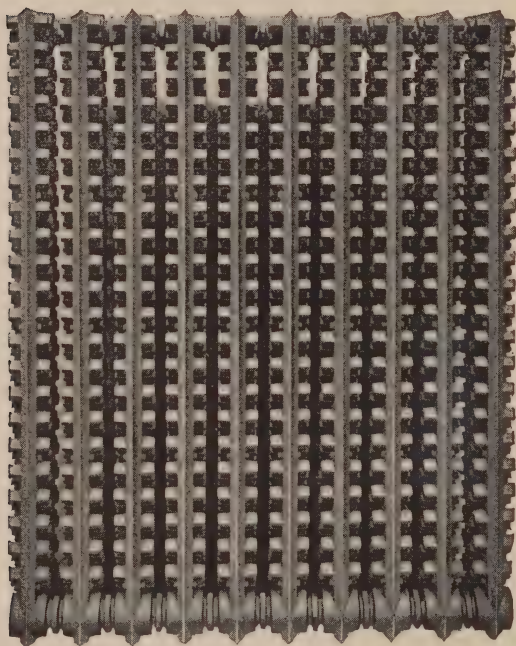


Heating Surface, $3\frac{1}{2}$ square feet. Wall Area, 1.15 square feet.
Two $\frac{1}{2}$ -inch Tappings.

AMERICAN RADIATORS

VENTO CAST IRON HEATER

FOR FAN OR BLOWER WORK



JUST as American Radiators have become the standard for direct radiator heating, so also has the Vento Cast Iron Hot Blast Heater become the standard of merit for blower and ventilation systems. For this heater is constructed according to scientific principles and the same exacting standards of manufacture that make all American Radiators and IDEAL Boilers so acceptable and popular the world over. Vento heaters are

AMERICAN RADIATORS

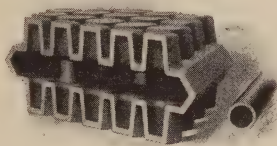
furnishing satisfactory heating and ventilating service in thousands of large and small buildings, such as schools, churches, stores, banks, hospitals, hotels, clubs, theatres auditoriums, libraries, etc.—wherever people are accustomed to congregate in large numbers.

These heaters are unequaled in operating efficiency. Internal currents of steam or hot water carry the heat through the hollow iron heating spaces shown in the illustration, while the exterior surfaces are very carefully designed to effect the maximum rubbing contact with the air and therefore the greatest possible heat transfer per square foot of surface. The warmed air is distributed at comfortable temperatures through the building.

Vento Heaters are shipped in blocks of sections, easily handled. Sections consist of only three parts, one main casting and two hexagon nipples. They may be carried through doors, windows or ordinary openings and may be quickly assembled. A considerable saving in labor is thus effected.

And the sections do not corrode or rust by the action of steam, water or air, but serve efficiently throughout the life of the building in which they are installed. In durability, as in efficiency, Vento Cast Iron Heaters are the best investment for property owners.

Complete physical and technical data is contained in booklet entitled "Engineers' Data on Vento Heaters."

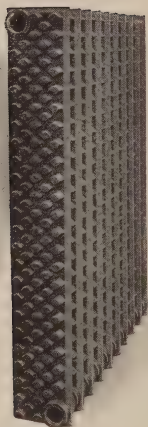


Comparative Cross-Section View of
VENTO section and a 1-inch pipe

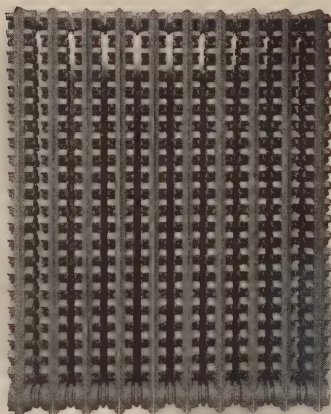
AMERICAN RADIATORS

VENTO HEATERS—CAST IRON

FOR FAN OR BLOWER WORK



Regular Section



Front View of Ten-Section Stack



Cross Section

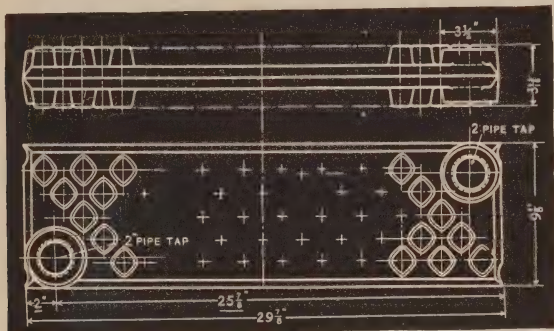
Sections are easily handled and transported and may be carried through doors or windows of any building, and can then be assembled in compact, complete heaters. The equivalent pipe coil stacks are cumbersome and difficult to handle and transport.

All details given in special catalogs.

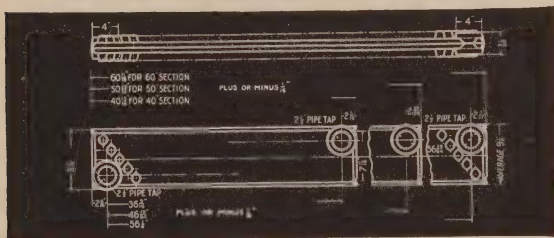
AMERICAN RADIATORS

VENTO HEATERS MEASUREMENTS

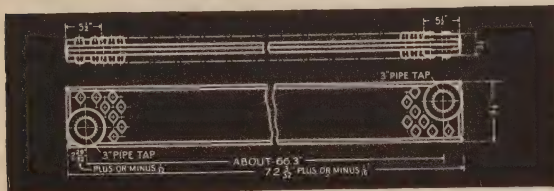
Regular Sections	Square Feet per Section	Height	Width
30 inch	8.0	30	$9\frac{1}{8}$
40 inch	10.75	$41\frac{1}{64}$	$9\frac{1}{8}$
50 inch	13.5	$50\frac{29}{32}$	$9\frac{1}{8}$
60 inch	16.0	$60\frac{11}{16}$	$9\frac{1}{8}$
72 inch	19.0	72	$9\frac{1}{8}$



30-Inch Vento Section



40, 50 and 60-Inch Vento Sections



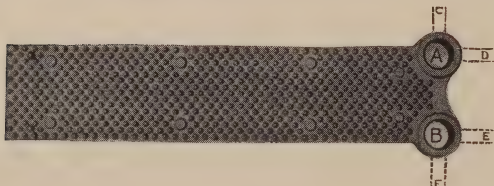
72-Inch Vento Section

AMERICAN RADIATORS

PERFECTION PIN FOR STEAM AND WATER

Heating Surface 10 Sq. Ft.

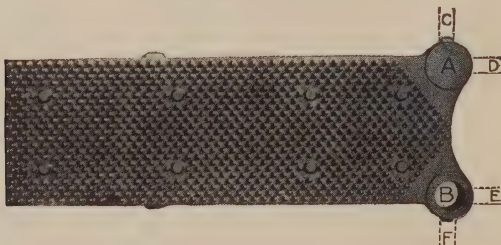
THREADED NIPPLE CONNECTIONS



"Standard" Size, Water End Section

MEASUREMENTS: Length overall (including nipple hubs), $36\frac{1}{4}$ inches. Height overall (at nipple hubs), $9\frac{13}{16}$ inches; section only, $7\frac{1}{2}$ inches. Thickness of section (at nipple hubs), $1\frac{15}{16}$ inches; slab only, $1\frac{5}{8}$ inches; including pins, $2\frac{9}{16}$ inches. Center to center distance in stack, $2\frac{3}{4}$ inches. On *Special Order*, we can supply nipples to make center to center distances of 3 , $3\frac{1}{4}$, $3\frac{1}{2}$ or $3\frac{3}{4}$ inches.

Heating Surface 15 Sq. Ft.



"Extra Large" Size, Steam End Section

MEASUREMENTS: Length overall (including nipple hubs), $36\frac{1}{4}$ inches. Height overall (at nipple hubs), 14 inches. Height of section only, $11\frac{1}{2}$ inches. Thickness of section (at nipple hubs), $2\frac{1}{16}$ inches; slab only, $1\frac{5}{8}$ inches; including pins, $2\frac{9}{16}$ inches. Center to center distance in stack, $2\frac{3}{8}$ inches. On *Special Order*, we can supply nipples to make center to center distances of $3\frac{1}{8}$, $3\frac{3}{8}$, $3\frac{5}{8}$ or $3\frac{7}{8}$ inches.

BOTH SIZES

CONSTRUCTION: Both "Standard" and "Extra-Large" sections are made in distinctive patterns for Steam and Water. The Steam patterns have one connection or passageway for Steam—the Water patterns have two connections or waterways.

TAPPINGS: 2 inches right-hand on one side, left-hand on other side. Unless otherwise ordered the inside tappings in bushings will be right-hand. Air Valve Tap— $\frac{3}{8}$ -inch.

SPECIAL TAPPINGS: If other than regular tappings ("A" and "B" for water and "B" only for steam) are desired, we can furnish on the Standard size section special tappings $1\frac{1}{4}$ inches or smaller, at "C," "F," "D," and "E," and for steam section 2 inches or smaller at "A." On the Extra Large section, can furnish special tappings 2 inches or smaller at "B," "C," "D," and "F," and at "A" on the steam section.

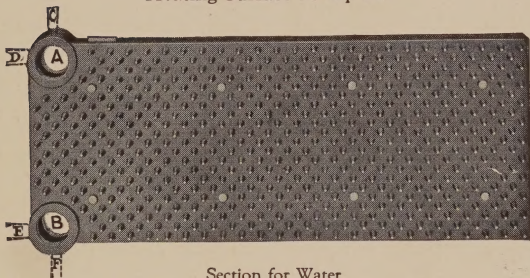
CONNECTIONS: Extra-heavy 2-inch right and left threaded nipples with hexagon nut in center. SHIPMENTS: Water sections separate unless ordered assembled in stacks of 5 or 6 sections; Steam sections cannot be safely shipped assembled and are therefore shipped knocked down. Sufficient nipples are shipped to assemble.

AMERICAN RADIATORS

SANITARY SCHOOL PIN

FOR STEAM AND WATER

Heating Surface 20 Sq. Ft.



Section for Water

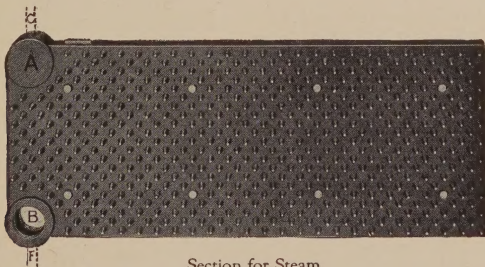
CONSTRUCTION: These sections are made in distinctive patterns for Steam and Water. The Steam patterns have one connection or passageway for steam. The Water pattern has two connections or waterways.

MEASUREMENTS: Length overall with regular tappings, $36\frac{1}{8}$ inches; when tapped at "D" or "E," $36\frac{3}{8}$ inches. Height overall with regular tappings, $15\frac{1}{4}$ inches; when tapped at "C" or "F," $15\frac{1}{2}$ inches; slab only, $13\frac{7}{8}$ inches. Thickness of section (through nipple hubs), $2\frac{5}{8}$ inches; slab only, $1\frac{1}{2}$ inches; including pins, $3\frac{7}{16}$ inches. Center to center distances in stack, 4 inches. On *Special Order*, we can supply nipples to make center to center distances of $3\frac{3}{4}$, $4\frac{1}{4}$ or $4\frac{1}{2}$ inches.

TAPPINGS: 2 inches, right-hand on supply end; left-hand on return end. Unless otherwise ordered the inside tappings of bushings will be right-hand. *Air Valve Tap*— $\frac{3}{8}$ -inch.

CONNECTIONS: Extra-heavy 2-inch right and left threaded nipples with hexagon nut at center.

SHIPMENTS: Steam sections always separate; Water sections separate, but when so specified Water sections can be shipped in five or six section stacks. Sufficient nipples are sent to assemble.



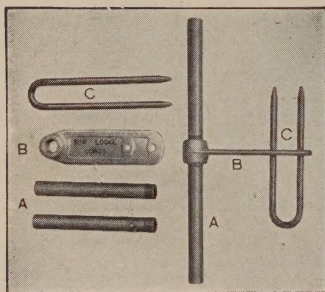
Section for Steam

NOTE, Special Tappings: If other than regular tappings ("A" and "B" on water section and "B" only on steam section) are desired, we can furnish special tappings 2 inches or smaller at "C," "D," "E," and "F," and also at "A" on the steam section.

AMERICAN RADIATORS

Sur-Locke Radiator Carrier

Handy — No Straining — Avoids Accidents —
Saves Time and Labor—Inexpensive



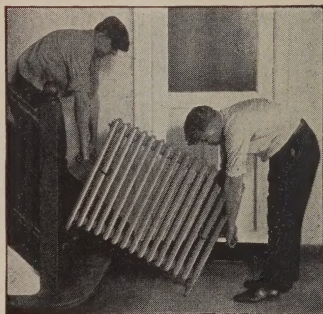
Only 4 parts. Can be assembled in a minute
ready for use

SPECIFICATIONS:

Handle "A"—Steel tubing (painted red), threaded on one end.

Tongue "B"—Dropped Steel Forging (Cadmium Plated). Hubs are threaded so that handles can be screwed in; and the holes near one end are for inserting the "U" Shaped Bent Pin.

Bent Pin "C"—Cold rolled steel (Cadmium Plated) with rounded points for easy insertion in the 2 holes in the Tongue.



Illustrating how Sur-Locke Carriers are
used to carry radiators upstairs

HOW IT WORKS:

The Tongue is inserted from one end into and between the loops of the first and second sections of the Radiator. Then the Bent "U" Pin is inserted sideways over the outside loop of second section, so that the 2 points engage the 2 holes near end of Tongue. Push in the Pin as far as it will go. (See illustration at right above.)

When leverage is applied to the Handles, the Tongue and Pin will grip the sections rigidly, so that Radiator can be lifted and carried. By releasing the leverage the Carrier may be moved up or down, *without* detaching any parts. Packed and shipped unassembled, two to a set, in a neat paper carton.

